

*Anexa nr. 7
la Documentația standard
aprobată prin Ordinul Ministrului Finanțelor
nr. 115 din 15.09.2021*

CERERE DE PARTICIPARE

Către: „Serviciul Tehnologia Informației și Securitate Cibernetică”, Republica Moldova, MD-2033, mun. Chișinău, Piata Marii Adunari Nationale nr.1

Stimați domni,

Ca urmare a anunțului/invitației de participare/de preselecție apărut în Buletinul achizițiilor publice, nr. **ocds-b3wdp1-MD-1697031896978** din „11” Octombrie 2023, privind aplicarea procedurii pentru atribuirea contractului „**Sisteme de informare și servere**”, noi **Î.M. „Orange Moldova” S.A.**, am luat cunoștință de condițiile și de cerințele expuse în documentația de atribuire și exprimăm prin prezenta interesul de a participa, în calitate de ofertant/candidat, neavând obiecții la documentația de atribuire.

Data completării 13.11.2023

Cu stimă,

Anatolie Bulgaru
Head of B2B IoT and ICT
Î.M. „Orange Moldova” S.A.

Acest act este semnat prin aplicarea **Semnăturii Mobile**
Verificarea semnăturii - <https://msign.gov.md/#/verify/upload>

DECLARAȚIE
privind valabilitatea ofertei

Către: „Serviciul Tehnologia Informației și Securitate Cibernetică”, Republica Moldova, MD-2033, mun. Chișinău, Piata Marii Adunari Nationale nr.1

Stimați domni,

Ne angajăm să menținem oferta valabilă, privind achiziționarea „**Sisteme de informare și servere**” prin procedura de achiziție Licitatie deschisă, pentru o durată de **60 zile**, (sasezeci zile), respectiv până la data de **11.01.2024**, și ea va rămâne obligatorie pentru noi și poate fi acceptată oricând înainte de expirarea perioadei de valabilitate.

Data completării 13.11.2023

Cu stimă,

Anatolie Bulgaru
Head of B2B IoT and ICT
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Specificații tehnice

Numărul procedurii de achiziție nr. ocds-b3wdp1-MD-1697031896978 din 11 Octombrie 2023
Obiectul achiziției: Sisteme de informare și servere

Denumirea bunurilor	Denumirea modelului	Țara de origine	Producătorul	Specificarea tehnică deplină solicitată de către autoritatea contractantă	Specificarea tehnică deplină propusă de către ofertant	Standarde de referință
1	2	3	4	5	6	7
Lot 1: Servere						
Servere	HPE DL380 Gen11 24SFF NC CTO	Czech Republic	Hewlett Packard Enterprise	<i>In conformitate cu Caietul de sarcini anexat.</i>	<i>In conformitate cu Anexa nr.1 Specificații tehnice detaliate</i>	ISO/IEC 17050-1, EN 17050-1

Data completării 13.11.2023

Cu stimă,

Anatolie Bulgaru
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Specificații tehnice minime si obligatorii acoperite de echipamentul oferat.

Technical specifications per server (HPE DL380 Gen11) vendor Hewlett Packard Enterprise.		
1.1	Type	Enterprise Server, Quantity = 16pcs. - meets the requirement
1.2	Form factor	Rack mount, max 2U (rail-kit included). - meets the requirement
1.3	CPU included	Quantity: 2 x CPU per server. - meets the requirement Cores: 32cores per CPU. - meets the requirement Threads: 64 threads per CPU. - meets the requirement Base Clock Speed: Min. 2.60 GHz. - meets the requirement Cache: Min. 50 MB. - meets the requirement Launch Date: Not earlier than Q1'2023. - meets the requirement
1.4	Memory	Min. 32 DDR5 slots. - meets the requirement
1.5	Memory included	Min. 12 x 64GB DDR5. - meets the requirement
1.6	Min. drive bays included	Min. 24 bays 2.5" for data, Support Hot-Swap drives. - meets the requirement Min. 2 bays for OS boot, RAID 1, Support Hot-Swap drives. - meets the requirement
1.7	Drives included	Min. 2 x 1.6TB SSD, Caching Tier, Endurance Class D , Performance Class F, SAS 24Gb/s, Hot-Swap. - meets the requirement Min. 14 x 3.2TB SSD, Capacity Tier, Endurance Class D min.15000TBW, Performance Class F, SAS 24Gb/s, Hot-Swap. - meets the requirement Drives SSD for vSAN should support min. vSAN releases 7.0U3-8.0U2. - meets the requirement Min. 2 x 240GB SSD for OS boot, Hot-Swap. - meets the requirement
1.8	Storage Adapters included	Should support Pass-through mode for all bays. - meets the requirement Should be in vSAN compatibility guide. - meets the requirement Should be compatible with min. vSAN releases 7.0U3-8.0U1. - meets the requirement 1 x RAID controller for OS boot, 2 x M.2 SSD, RAID-1. - meets the requirement
1.9	NICs, ports, modules included (Server side)	Min. 2 x NIC's, 2 x 10/25GbE ports, identical NIC's models. - meets the requirement NIC's should support network virtualization offload. - meets the requirement NIC's should be in vSAN compatibility guide. - meets the requirement NIC's should support min. vSAN releases 7.0U3-8.0U1. - meets the requirement Min. 4 x SFP-10G-SR SFP+ MM modules. - meets the requirement Min. 1 x Dedicated 1Gb/s Ethernet Port for remote management. - meets the requirement

1.10	Modules included (Switch side)	Min. 4 x SFP-10G-SR SFP+ MM (Cisco Compatible). - meets the requirement
1.11	Interfaces included	Min. 2 x USB ports. - meets the requirement Min. 1 x VGA port. - meets the requirement
1.12	Options included	Trusted Platform Module 2.0. - meets the requirement
1.13	Supported operating environments	Microsoft Windows Server®. - meets the requirement Microsoft Hyper-V®. - meets the requirement Red Hat® Enterprise Linux. - meets the requirement VMware® (VMware® vSphere, VMware® vSAN 7.0U3-8.0U1). - meets the requirement
1.14	Power supplies included	2 Hot-Swap PSU with support for 1+1 redundancy. - meets the requirement Power cables c13-c14(0.6 m). - meets the requirement
1.15	Fan Modules included	Hot-Swap with N+1 redundancy. - meets the requirement
1.16	Management included	A web-based solution for KVM must be included with full functionality for manage and monitoring, including at least: - View information about the state of the managed server; - Inventory and monitoring of network adapters and data storage subsystems without software agents in the OS; - View inventory information; - View information from sensors; - Monitoring and control of electricity consumption; - Turn on/off the server; - Remote update of BIOS, firmware of network and RAID controllers; - Virtual console, virtual media devices; - OS installation from virtual media devices and through network shared folders. Centralized resource management solution for hardware management must be included, with full functionality, that provides agent-free management, automates discovery, inventory, tracking, updates, monitoring, and provisioning". - meets all requirements
1.17	Warranty	Hardware and software support from vendor, with available customer portal. - meets the requirement Next business day hardware replacement included for min. 3 years. - meets all requirements
1.18	Terms and conditions	All requirements are minimum and mandatory. One requirement must not limit another requirement. All components must be current and not advertised as EOS / EOL. The expansion of memory (ram) and storage capacity must not include any hardware or software limitations. Faulty storage drives are not subject of return in order to be compliant with the security requirements. - meets all requirements

Detalierea pe componente pentru echipamentul ofertat

Part Number	Description	Qty
P52535-B21	HPE DL380 Gen11 24SFF NC CTO Svr	16
P49603-B21	INT Xeon-P 8462Y+ CPU for HPE	32
P43331-B21	HPE 64GB 2Rx4 PC5-4800B-R Smart Kit	192
P49049-B21	HPE 1.6TB SAS MU SFF BC MV SSD	32
P49053-B21	HPE 3.2TB SAS MU SFF BC MV SSD	224
P47785-B21	HPE MR216i-p Gen11 SPDM Storage Cntlr	16
P26262-B21	BCM 57414 10/25GbE 2p SFP28 Adptr	16
P47789-B21	HPE MR216i-o Gen11 SPDM Storage Cntlr	16
P10115-B21	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	16
455883-B21	HPE BLc 10G SFP+ SR Transceiver	64
	SFP-10G-SR SFP+ MM cisco compatible	64
P03178-B21	HPE 1000W FS Ti Ht Plg PS Kit	32
BD505A	HPE iLO Adv 1-svr Lic 3yr Support	16
P48830-B21	HPE DL3XX Gen11 CPU2/OCP2 x8 Enable Kit	16
P54874-B21	HPE DL380 Gen11 8SFF Retimer/-P Cbl Kit	16
P22020-B21	HPE DL38X Gen10+ 2U CMA for Rail Kit	16
P48183-B21	HPE NS204i-u Gen11 Ht Plg Boot Opt Dev Includes two HPE enterprise-class 480 GB NVMe M.2 SSDs on a single HPE Synergy add-in card	16
P48818-B21	HPE DL380/DL560 G11 High Perf 2U HS Kit	32
P52152-B21	HPE DL380 G11 NS204i-u Internal Cbl Kit	16
P52341-B21	HPE DL3XX Gen11 Easy Install Rail 3 Kit	16
P63226-B21	HPE ProLiant for vSAN RN ESA FIO Trk	16
R7A11AAE	HPE GreenLake COM En 3y Up ProLiant aaS	16
HU4A7A3	HPE 3Y Tech Care Essential wDMR SVC	1
HU4A7A300DK	HPE DL380 Gen11 Support	16

Specificații de preț

Numărul procedurii de achiziție nr. ocds-b3wdp1-MD-1697031896978 din 11 Octombrie 2023
Obiectul achiziției: Sisteme de informare și servere

Cod CPV	Denumirea bunurilor	Unitatea de măsură	Cantitatea	Preț unitar (fără TVA), MDL	Preț unitar (cu TVA), MDL	Suma (fără TVA), MDL	Suma (cu TVA), MDL	Termenul de livrare	Clasificația bugetară (IBAN)	Discount %
1	2	3	4	5	6	7	8	9	10	11
Lot 1: Servere										
48820 000-2	Servere	buc	16	769,577.47	923,492.97	12,313,239.55	14,775,887.46	Până la 120 de zile din data semnării contractului	MD28TRPCCC5184 30C01371AA	n/a
TOTAL:						12,313,239.55	14,775,887.46			

Data completării 13.11.2023

Cu stimă,

Anatolie Bulgaru
Head of B2B IoT and ICT
Î.M. „Orange Moldova” S.A.

Acest act este semnat prin aplicarea **Semnăturii Mobile**
Verificarea semnăturii - <https://msign.gov.md/#/verify/upload>

FORMULARUL STANDARD AL DOCUMENTULUI UNIC DE ACHIZIȚII EUROPEAN

1. Documentul unic de achiziții european (în continuare, DUAЕ) este o declarație pe proprie răspundere, prin care operatorul economic confirmă îndeplinirea criteriilor de calificare și selecție necesare în cadrul procedurilor de achiziție publică în Republica Moldova.
 2. Formularul este completat, semnat electronic și transmis autorității contractante la depunerea ofertei.
 3. Un DUAЕ depus de către operatorul economic în cadrul unei proceduri de achiziție publică anterioară poate fi reutilizat, cu condiția ca informațiile cuprinse în formular să fie corecte și valabile la data depunerii acestuia.
 4. Ofertantul care prezintă în DUAЕ informații false sau documentele justificative prezentate nu confirmă informația indicată în documentul prezentat este exclus din procedura de achiziție publică și/sau poate răspunde conform legislației.
 5. Formularul DUAЕ este constituit din 7 capitole, și anume:
 - 1) Capitolul I. Informații privind procedura de achiziție publică și autoritatea/entitatea contractantă;
 - 2) Capitolul II. Informații referitoare la operatorul economic;
 - 3) Capitolul III. Motive de excludere din cadrul procedurii de achiziție publică;
 - 4) Capitolul IV. Criteriile de calificare și selecție a operatorilor economici;
 - 5) Capitolul V. Indicații generale pentru criteriile de selecție a operatorilor economici;
 - 6) Capitolul VI. Preselecția candidaților pentru procedura de atribuire a contractului de achiziție publică;
 - 7) Capitolul VII. Declarații finale.
 6. Prezentarea formularului DUAЕ la depunerea ofertei care nu este conform cu cerințele stabilite în Documentația de atribuire duce la respingerea ofertei.
- Capitolul I. Informații privind procedura de achiziție publică și autoritatea/entitatea contractantă**

Compartimentul se completează doar de către autoritatea/entitatea contractantă.

Cod poziție	Conținutul cerinței	Răspuns
1	2	3
A. Informații despre publicare		
1A.1	Numărul anunțului/invitației publicate în Buletinul achizițiilor publice, și după caz numărul anunțului publicat în Jurnalul Oficial al Uniunii Europene	ocds-b3wdp1-MD-1697031896978

B. Identitatea autorității/entității contractante		
1B.1	Denumirea autorității/entității contractante	Serviciul Tehnologia Informației și Securitate Cibernetică
1B.2	Număr unic de identificare (IDNO) a autorității/entității contractante	1003600096694

Capitolul II. Informații referitoare la operatorul economic

Compartimentul se completează doar de către operatorii economici.

Cod poziție	Conținutul cerințelor	Răspuns
1	2	3
A. Informații privind operatorul economic		
2A.1	Denumirea operatorul economic	Î.M. „Orange Moldova” S.A.
2A.2	Țara	Republica Moldova
2A.3	Cod poștal	MD-2071
2A.4	Oras/Localitate	mun. Chișinău
2A.5	Adresa juridică	mun. Chișinău, str. Alba Iulia 75
2A.6	Pagina web	www.orange.md
2A.7	Persoana sau persoanele de contact	Rusu Victor
2A.7.1	Telefon	069198021
2A.7.2	Adresa de e-mail	corporate@orange.md
2A.8	Număr unic de identificare (IDNO/IDNP)	1003600106115
2A.9	Numărul cod TVA	7800044
2A.10	Forma organizatorico-juridică a activității de antreprenariat	Societate pe acțiuni
2A.11	Informația cu privire la numele acționarilor/asociaților/beneficiarului efectiv	
2A.11.1	Numele acționarilor / asociaților	Orange Participations S.A. MMT-BIS S.A. Corporația Financiară Internațională
2A.11.2	Numele beneficiarului efectiv <i>[beneficiar efectiv – persoană fizică ce deține sau controlează în ultimă instanță o persoană fizică sau juridică ori beneficiar al unei societăți de investiții sau administrator al societății de investiții, ori persoană în al cărei nume se desfășoară o activitate sau se realizează o tranzacție și/sau care deține, direct</i>	Olga Surugiu Administrator Climoc Liudmila Membru al Consiliului societății Nazaroi Ion Membru al Consiliului societății Deloison Gilles Membru al Consiliului

	<i>sau indirect, dreptul de proprietate sau controlul asupra a cel puțin 25% din acțiuni sau din dreptul de vot al persoanei juridice ori asupra bunurilor aflate în administrare fiduciară]</i>	societății Ribas Christine Membru al Consiliului societății Adlouni Faycal Membru al Consiliului societății Luginbühl Christian Urs Membru al Consiliului societății Culpin Jean-Marie Membru al Consiliului societății „Orange” S.A. Societatea-mamă
2A.11.3	<i>Cetățenia beneficiarului efectiv (legătură juridico-politică permanentă a persoanei fizice definite conform poziției 2A.11.2)</i>	Olga Surugiu - R.Moldova Climoc Liudmila - R.Moldova Nazaroi Ion - R.Moldova Deloison Gilles - Franta Ribas Christine - Franta Adlouni Faycal - Franta Luginbühl Christian Urs - Elvetia Culpin Jean-Marie - Franta „Orange” S.A. - Franta
2A.12	Operatorul economic este: • întreprindere mică • întreprindere mijlocie • și altele	☐ Da ☒ Nu ☐ Da ☒ Nu ☒ Da ☐ Nu
2A.13	În cazul în care achiziția este rezervată: operatorul economic este un atelier protejat sau o întreprindere socială, sau va asigura executarea contractului în contextul programelor de angajare protejată?	☐ Da ☒ Nu
2A.13.1	<i>Dacă da, care este procentul corespunzător de lucrători cu dizabilități sau defavorizați?</i>	Nu se aplică
2A.13.2	<i>Specificați cărei sau căror categorii de lucrători cu dizabilități sau defavorizați le aparțin angajații în cauză?</i>	Nu se aplică
2A.14	Operatorul economic participă la procedura de achiziții publice împreună cu alți operatori	☐ Da ☒ Nu

	economici?	
2A.14.1	<i>Dacă Da, precizați rolul operatorului economic în cadrul grupului (lider, responsabil cu îndeplinirea unor sarcini specifice, etc).</i>	Nu se aplică
2A.14.2	<i>Numiți operatorii economici care participă la procedura respectivă de achiziție publică.</i>	Nu se aplică
2A.14.3	<i>Specificați denumirea grupului participant.</i>	Nu se aplică
<i>Notă. Dacă ați răspuns Da la întrebarea 2A.14, asigurați-vă ca operatorii economici menționați să prezinte un formular DUAЕ separat.</i>		
B. Informații privind reprezentanții operatorului economic		
Indicați numele persoanei (persoanelor) împuternicită (împuternicite) să îl reprezinte pe operatorul economic în scopurile prezentei proceduri de achiziție publică.		
2B.1	Nume și prenume	Rusu Victor
2B.2	Poziție/acționând în calitate de..	Solutions Expert Engineer
2B.3	Țară	Republica Moldova
2B.4	Telefon	069198021
2B.5	Adresa de e-mail	victor.rusu@orange.com
C. Informații privind utilizarea capacităților altor entități		
2C.1	Operatorul economic utilizează capacitățile altor entități pentru a satisface criteriile de selecție prevăzute în capitolul IV, precum și (dacă este cazul) criteriile și regulile menționate în capitolul V de mai jos?	☐ Da ☒ Nu
<i>Notă. Dacă ați răspuns Da la întrebarea 2C.1, prezentați un formular DUAЕ separat care să cuprindă informațiile solicitate în secțiunile A și B din capitolul respectiv și din capitolul III pentru fiecare dintre entitățile în cauză, completat și semnat în mod corespunzător de entitățile în cauză. Atragem atenția asupra faptului că trebuie incluși, de asemenea, tehnicienii sau organismele tehnice implicate, indiferent dacă fac sau nu parte din întreprinderea operatorului economic, în special cei care răspund de controlul calității și, în cazul contractelor de achiziții publice de lucrări, tehnicienii sau organismele tehnice la care poate face apel operatorul economic în vederea executării lucrărilor. În măsura în care este relevant pentru capacitatea (capacitățile) specifică (specifice) utilizată (utilizate) de operatorul economic, includeți informațiile prevăzute în capitolele IV și V pentru fiecare dintre entitățile în cauză.</i>		
D. Informații privind subcontractanții pe ale căror capacități operatorul economic se bazează		
2D.1	Operatorul economic intenționează să subcontracteze vreo parte din contract cu alți operatori economici?	☐ Da ☒ Nu
2D.1.1	<i>Dacă Da, enumerați subcontractanții propuși.</i>	Nu se aplică

Capitolul III. Motive de excludere din cadrul procedurii de achiziție publică

Compartimentul se completează de către operatorii economici.

Cod poziție	Conținutul cerințelor	Răspuns
A.Motive referitoare la condamnări prin hotărârea definitivă a unei instanțe judecătorești		
1	2	3
3A.1	Participare la o organizație criminală. Operatorul economic însuși sau orice persoană care este membru al organismului de administrare, de conducere sau de supraveghere al acestuia sau care are putere de reprezentare, de decizie sau de control în cadrul acestuia a făcut obiectul unei condamnări pronunțate printr-o hotărâre definitivă pentru participare la o organizație criminală, printr-o condamnare pronunțată cu cel mult cinci ani în urmă sau în care continuă să se aplice o perioadă de excludere prevăzută în mod direct în condamnare?	☐ Da ☒ Nu
3A.2	Corupție. Operatorul economic însuși sau orice persoană care este membru al organismului de administrare, de conducere sau de supraveghere al acestuia sau care are putere de reprezentare, de decizie sau de control în cadrul acestuia a făcut obiectul unei condamnări pentru corupție pronunțate printr-o hotărâre definitivă, printr-o condamnare pronunțată cu cel mult cinci ani în urmă sau în care continuă să se aplice o perioadă de excludere prevăzută în mod direct în condamnare?	☐ Da ☒ Nu
3A.3	Fraude. Operatorul economic însuși sau orice persoană care este membru al organismului de administrare, de conducere sau de supraveghere al acestuia sau care are putere de reprezentare, de decizie sau de control în cadrul acestuia a făcut obiectul unei condamnări pentru fraudă pronunțate printr-o hotărâre definitivă, printr-o condamnare pronunțată cu cel mult cinci ani în urmă sau în care continuă să se aplice o perioadă de excludere prevăzută în mod direct în condamnare?	☐ Da ☒ Nu
3A.4	Infracțiuni teroriste sau infracțiuni legate de activitățile teroriste. Operatorul economic însuși sau orice persoană care este membru al organismului de administrare, de conducere sau de supraveghere al acestuia sau	☐ Da ☒ Nu

	care are putere de reprezentare, de decizie sau de control în cadrul acestuia a făcut obiectul unei condamnări pentru infracțiuni teroriste sau infracțiuni legate de activități teroriste, pronunțate printr-o hotărâre definitivă, printr-o condamnare pronunțată cu cel mult cinci ani în urmă sau în care continuă să se aplice o perioadă de excludere prevăzută în mod direct în condamnare?	
3A.5	Spălare de bani sau finanțarea terorismului. Operatorul economic însuși sau orice persoană care este membru al organismului de administrare, de conducere sau de supraveghere al acestuia sau care are putere de reprezentare, de decizie sau de control în cadrul acestuia a făcut obiectul unei condamnări pentru infracțiuni teroriste sau infracțiuni legate de activități teroriste, pronunțate printr-o hotărâre definitivă, printr-o condamnare pronunțată cu cel mult cinci ani în urmă sau în care continuă să se aplice o perioadă de excludere prevăzută în mod direct în condamnare?	☐ Da ☒ Nu
3A.6	Exploatarea prin muncă a copiilor și alte forme de trafic de persoane. Operatorul economic însuși sau orice persoană care este membru al organismului de administrare, de conducere sau de supraveghere al acestuia sau care are putere de reprezentare, de decizie sau de control în cadrul acestuia a făcut obiectul unei condamnări pronunțate printr-o hotărâre definitivă pentru exploatarea prin muncă a copiilor și alte forme de trafic de persoane, printr-o condamnare pronunțată cu cel mult cinci ani în urmă sau în care continuă să se aplice o perioadă de excludere prevăzută în mod direct în condamnare?	☐ Da ☒ Nu
3A.7	În cazul că răspunsul este Da pentru cel puțin una din întrebările 3A.1 – 3A.6, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?	Nu se aplică Se va prezenta Cazier Judiciar la necesitate
3A.7.1	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
B. Motive privind plata impozitelor sau/și a contribuțiilor de asigurări sociale		
	Plata impozitelor	
3B.1	Operatorul economic și-a onorat obligațiile cu privire la plata impozitelor, taxelor și contribuțiilor sociale în conformitate cu	☒ Da ☐ Nu

	prevederile legale în vigoare în Republica Moldova sau în țara în care este stabilit?	
3B.1.1	<i>Dacă Nu, în ce mod a fost stabilită obligația cu privire la plata impozitelor, taxelor și contribuțiilor sociale?</i>	Nu se aplică
3B.1.2	<i>În cazul în care, încălcarea cu referire la obligațiile privind plata impozitelor, taxelor și contribuțiilor sociale a fost stabilită printr-o hotărâre judecătorească sau administrativă, această decizie este definitivă?</i>	☐ Da ☒ Nu
3B.1.3	<i>În cazul în care, încălcarea cu referire la obligațiile privind plata impozitelor, taxelor și contribuțiilor sociale a fost stabilită printr-o hotărâre judecătorească sau administrativă, precizați data și numărul deciziei.</i>	Nu se aplică
3B.2	Operatorul economic beneficiază, în condițiile legii, de eşalonarea obligațiilor de plată a impozitelor, taxelor și contribuțiilor de asigurări sociale ori de alte facilități în vederea plății acestora, inclusiv a majorărilor de întârziere (penalităților) și/sau a amenzilor? Notă: Se completează doar în cazul în care ați răspuns Nu, la întrebarea din 3B.1.	Nu se aplică
3B.2.1	<i>Dacă Da, operatorul economic este în măsură să furnizeze actul privind eşalonarea obligațiilor de plată a impozitelor, taxelor și contribuțiilor de asigurări sociale ori de alte facilități în vederea plății acestora?</i>	Nu se aplică
3B.3	Operatorul economic este în măsură să furnizeze un certificat cu privire la plata impozitelor sau să furnizeze informații privind onorarea obligațiilor fiscale?	☒ Da ☐ Nu
3B.4	Informațiile privind lipsa/existența restanțelor față de bugetul public național sunt disponibile gratuit pentru autorități, prin accesarea unei baze de date naționale? Dacă da, specificați informația care ar permite verificarea.	Adresa de internet: https://servicii.fisc.md Autoritatea sau Organismul emitent(ă): SFS Referința exactă a documentației: Certificat CC04AE
C. Includerea în lista de interdicție a operatorilor economici		
3C.1	Operatorul economic este înscris în lista de interdicție a operatorilor economici?	☐ Da ☒ Nu

3C.1.1	<i>În cazul că răspunsul este Da pentru întrebarea 3C.1, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică
3C.1.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
D. Motive legate de insolvabilitate, conflicte de interese sau abateri profesionale		
	Obligațiile aplicabile în domeniul mediului, muncii și asigurărilor sociale	
3D.1	Operatorul economic a încălcat obligațiile în domeniul mediului în ultimii 3 ani?	☐ Da ☒ Nu
3D.1.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.1, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică
3D.1.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
3D.2	Operatorul economic a încălcat obligațiile în domeniul social în ultimii 3 ani?	☐ Da ☒ Nu
3D.2.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.2, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică
3D.2.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
3D.3	Operatorul economic a încălcat obligațiile în domeniul muncii în ultimii 3 ani?	☐ Da ☒ Nu
3D.3.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.3, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică
3D.3.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
	Insolvabilitatea	
3D.4	Operatorul economic este în situație de insolvabilitate sau de lichidare a activității antreprenoriale ca urmare a unei hotărâri judecătorești?	☐ Da ☒ Nu
3D.4.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.4, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică
3D.4.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică

	Active administrate de lichidator	
3D.5	Activele operatorului economic sunt administrate de un lichidator sau de o instanță?	☐ Da ☒ Nu
3D.5.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.5, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică
3D.5.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
	Activitățile economice sunt suspendate	
3D.6	Activitățile economice ale operatorului economic sunt suspendate?	☐ Da ☒ Nu
3D.6.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.6, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică
3D.6.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
	Acorduri cu alți operatori economici care vizează denaturarea concurenței	
3D.7	Operatorul economic, în ultimii 3 ani, a încheiat acorduri cu alți operatori economici care au ca obiect denaturarea concurenței, fapt constatat prin decizie a organului abilitat în acest sens?	☐ Da ☒ Nu
3D.7.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.7, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică
3D.7.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
	Conflict de interese	
3D.8	Operatorul economic se află într-o situație de conflict de interese care nu poate fi remediată?	☐ Da ☒ Nu
3D.8.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.8, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică
3D.8.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
	Etica profesională	
3D.9	Operatorul economic a fost condamnat, în ultimii 3 ani, prin hotărâre definitivă a unei instanțe judecătorești, pentru o faptă care a adus atingere eticii profesionale sau pentru comiterea unei greșeli	☐ Da ☒ Nu

	în materie profesională?	
3D.9.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.9, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică
3D.9.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică
	Integritatea	
3D.10	Operatorul economic, în ultimii 3 ani, se face vinovat de o abatere profesională, care îi pune la îndoială integritatea?	☐ Da ☒ Nu
3D.10.1	<i>În cazul că răspunsul este Da pentru întrebarea 3D.10, puteți furniza dovezi care să arate că măsurile luate sunt suficiente pentru a demonstra fiabilitatea, în pofida existenței unui motiv de excludere?</i>	Nu se aplică
3D.10.2	<i>Dacă Da, descrieți aceste măsuri.</i>	Nu se aplică

Capitolul IV. Criteriile de calificare și selecție a operatorilor economici

Compartimentul se completează de către autoritatea/entitatea (coloana nr.2) contractantă și operatorii economici (coloana nr.3).

Cod poziție	Conținutul cerințelor	Răspuns
1	2	3
A. Capacitatea de exercitare a activității profesionale		
4A.1	Operatorul economic este în măsură să furnizeze documentul/documentele prin care se va demonstra înregistrarea acestuia?	☒ Da ☐ Nu
4A.1.1	<i>Dacă Da, indicați actele de înregistrare a activității antreprenoriale și genul (genurile) de activitate determinate de legislație, aferent obiectului procedurii de atribuire a contractului, în baza căreia întreprinderea are dreptul să execute viitorul contract de achiziție publică.</i>	Certificat de înregistrare nr. 0067000 eliberat la 24.07.2007, Extras din registrul de stat al persoanelor juridice nr. 526338 din 13.07.2023. Genul principal de activitate: Telecomunicații.
4A.1.2	<i>Actele de înregistrare a activității antreprenoriale, sunt disponibile gratuit pentru autorități dintr-o bază de date națională? Dacă da, specificați informația care ar permite verificarea.</i>	<i>Adresa de internet:</i> Nu exista
		<i>Autoritatea sau organismul emitent(ă):</i> Nu exista
		<i>Referința exactă a documentației:</i>

		Nu exista
4A.2	Activitatea antreprenorială deține o certificare și/sau o autorizare echivalentă aferent obiectului procedurii de atribuire a contractului, în cadrul unui sistem național?	☒ Da ☐ Nu Manufacturer's Authorization Form (HP Enterprise), Distributor Authorization Form (Elcore Distributor), 2BO13_Elcore Distributor Standard Certificate (HP Enterprise), Certificat de calificare partener HPE Certificat partener Solution Provider (HP Enterprise).
4A.2.1	<i>Dacă Da, operatorul economic este în măsură să furnizeze documentul/documentele prin care se va demonstra certificarea și/sau autorizarea activității acestuia?</i>	☒ Da ☐ Nu
4A.2.3	Actele privind certificarea sau autorizarea sunt disponibile gratuit pentru autorități, dintr-o bază de date națională? Dacă da, specificați informația care ar permite verificarea.	<i>Adresa de internet:</i> Nu exista <i>Autoritatea sau organismul emitent(ă):</i> Hewlett Packard Enterprise, Distributor <i>Referința exactă a documentației:</i> Manufacturer's Authorization Form (HP Enterprise), Distributor Authorization Form (Elcore Distributor), 2BO13_Elcore Distributor Standard Certificate (HP Enterprise), Certificat de calificare partener HPE Certificat partener Solution Provider (HP Enterprise).
4A.3	Genurile de activitate, și/sau certificarea, și/sau autorizarea privind activitatea de întreprinzător, acoperă criteriile de selecție impuse de	☒ Da ☐ Nu

	autoritatea/entitatea contractantă în anunțul/invitația de participare?	
B. Capacitatea economică și financiară		
	Declarații bancare	
4B.1	Operatorul economic este în măsură să furnizeze declarații bancare sau, după caz, dovezi privind asigurarea riscului profesional în conformitate cu cerințele din documentația de atribuire?	☒ Da ☐ Nu
4B.1.1	<i>Informația menționată la punctul 4B.1 este disponibilă gratuit pentru autorități, dintr-o bază de date națională? Dacă da, specificați informația care ar permite verificarea ei.</i>	<i>Adresa de internet:</i> Nu exista
		<i>Autoritatea sau organismul emitent(ă):</i> Nu exista
		<i>Referința exactă a documentației:</i> Nu exista
	Cifra de afaceri anuală	
4B.2	Operatorul economic este în măsură să demonstreze o cifră de afaceri anuală, după cum urmează: Valoare _____ Perioada _____ <i>Notă. Se completează de către autoritatea contractantă valoarea și perioada</i>	☒ Da ☐ Nu
4B.2.1	<i>Specificați care este cifra de afaceri anuală, conform datelor din raportul financiar.</i>	3,161,577,176.00 MDL, 2022
	Cifra de afaceri medie anuală	
4B.3	Operatorul economic este în măsură să demonstreze o cifră medie anuală de afaceri, după cum urmează: Valoare _____ Perioada _____ <i>Notă. Se completează de către autoritatea contractantă valoarea și perioada</i>	☒ Da ☐ Nu
4B.3.1	<i>Specificați cifra de afaceri, conform datelor din raportul financiar.</i>	3,161,577,176.00 MDL, 2022
		3,050,691,749.00 MDL, 2021
		2,913,682,056.00 MDL, 2020
		3,041,983,660.33 MDL Medie
	Raport financiar	

4B.4	Operatorul economic este în măsură să furnizeze raportul financiar înregistrat, extrase din raportul financiar?	☒ Da ☐ Nu
4B.5	Informațiile privind situația economică și financiară sunt disponibile gratuit pentru autorități, dintr-o bază de date națională? Dacă da, specificați informația care ar permite verificarea.	Adresa de internet: Nu exista
		Autoritatea sau organismul emitent(ă): <i>aprobat de Biroul National de Statistica</i>
		Referința exactă a documentației: <i>Raportul financiar 2022</i>
C. Capacitatea tehnică și/sau profesională		
4C.1	Operatorul economic este în măsură să furnizeze documentele solicitate de către autoritatea/entitatea contractantă în anunțul de participare, care demonstrează capacitatea tehnică și/sau profesională pentru executarea viitorului contract.	☒ Da ☐ Nu
4C.1.1	<i>Informațiile privind capacitatea tehnică și/sau profesională sunt disponibile gratuit pentru autorități, dintr-o bază de date națională? Dacă da, specificați informația care ar permite verificarea.</i>	<i>Adresa de internet:</i> <i>Nu exista</i>
		<i>Autoritatea sau organismul emitent(ă):</i> Elcore Distribuitor
		<i>Referința exactă a documentației:</i> Distribuitor Authorization Form, Manufacturer's Authorization Form.
	Instalații tehnice și măsuri de asigurare a calității	
4C.2	Operatorul economic este în măsură să furnizeze detalii referitoare la tehnicieni sau organisme tehnice, specificate în anunțul de participare/documentația de atribuire, pe care autoritatea/entitatea contractantă le poate solicita, în special cele responsabile de controlul calității în legătură cu acest exercițiu de achiziție publică?	☒ Da ☐ Nu
4C.3	Operatorul economic este în măsură să furnizeze o informație cu privire la sistemele de management și de trasabilitate utilizate în cadrul lanțului de aprovizionare?	☒ Da ☐ Nu

4C.3.1	<i>Informațiile sunt disponibile gratuit pentru autorități, dintr-o bază de date națională? Dacă da, specificați informația care ar permite verificarea.</i>	Adresa de internet: Nu exista
		Autoritatea sau organismul emitent(ă): Î.M. „Orange Moldova” S.A./Producator
		Referința exactă a documentației: Declaratie de Conformitate/Certificate ISO 9001
	Utilaje, instalații și echipament tehnic	
4C.4	Operatorul economic dispune de utilaje și echipament necesar pentru îndeplinirea corespunzătoare a contractului de achiziție publică?	☒ Da ☐ Nu
4C.5	Operatorul economic este în măsură să furnizeze o informație cu privire la dotările specifice, utilajul și echipamentul necesar pentru îndeplinirea contractului, conform cerințelor stabilite în anunțul de participare și documentația de atribuire?	☒ Da ☐ Nu
	Pregătirea profesională și calificarea personalului	
4C.6	Operatorul economic are în cadrul întreprinderii personal calificat conform cerințelor stabilite în anunțul de participare sau în documentația de atribuire?	☒ Da ☐ Nu
4C.7	Operatorul economic este în măsură să furnizeze o informație privind personalul de specialitate propus pentru executarea contractului, conform cerințelor stabilite în anunțul de participare și documentația de atribuire?	☒ Da ☐ Nu
4C.8	Indicați efectivele medii anuale de personal angajat din ultimii trei ani de activitate.	Anul 2020
		Angajați 763
		Anul 2021
		Angajați 865
		Anul 2022
		Angajați 679
	Numărul membrilor personalului de conducere	
4C.9	Indicați numărul membrilor personalului de conducere ale operatorului economic pe parcursul ultimilor trei ani.	Anul 2020
		Persoane 9
		Anul 2021
		Persoane 9
		Anul 2022
		Persoane 9
	Mostre, descrieri, fotografii	

4C.10	Operatorul economic este în măsură să furnizeze eşantioane (mostre), descrieri și/sau fotografii ale produselor/serviciilor care urmează să fie furnizate/prestate, conform cerințelor stabilite în documentația de atribuire?	☒ Da ☐ Nu
	Pentru contractele de achiziție publică de lucrări	
4C.11	În perioada de referință, operatorul economic a îndeplinit lucrări specifice sau similare obiectului de achiziție indicat în anunțul de participare și în documentația de atribuire?	☒ Da ☐ Nu
4C.11.1	<i>Dacă Da, enumerați-le specificând descrierea lucrărilor, valoarea lor, data de începere, data procesului verbal de recepție la terminarea lucrărilor, beneficiarul și altă informație relevantă.</i>	<i>Nu se aplică</i>
	Pentru contractele de achiziție publică de bunuri	
4C.12	În perioada de referință, operatorul economic a efectuat livrări specifice obiectului de achiziție indicat în anunțul de participare și în documentația de atribuire?	☒ Da ☐ Nu
4C.12.1	<i>Dacă Da, enumerați-le specificând descrierea livrării bunurilor, valoarea lor, și altă informație relevantă.</i>	<i>Referința exactă a documentației:</i> B.C. Victoriabank S.A., Contract Nr. CC-5577. Echipament IT, 2021 Valoarea totală a bunurilor 360,000.00 USD inclusiv TVA. BC "MAIB" S.A., Contract Nr. F/N. Echipament IT, 2022. Valoarea totală a bunurilor 130,000.00 EUR inclusiv TVA. Noction S.R.L., Contract Nr. CC-5989. Echipament IT, 2022 Valoarea totală a bunurilor 20000.00 USD inclusiv TVA. IP STISC, Contract Nr. 102, Echipament IT, 2022. Valoarea totală a bunurilor 5745000.00 MDL inclusiv TVA. Health Forever International SRL Contract Nr. 8171. Echipament IT,

		2022/2023. Valoarea totală a bunurilor 27,000.00 EUR inclusiv TVA. ICT Solutii SRL Contract Nr. 9988/1. Echipament IT, 2022/2023. Valoarea totală a bunurilor 300,000.00 EUR inclusiv TVA. IT-Lab Grup S.R.L. Contract Nr. 18876. Echipament IT, 2023. Valoarea totală a bunurilor 130,000.00 EUR inclusiv TVA.
	Pentru contractele de achiziție publică de servicii	
4C.13	În perioada de referință, operatorul economic a prestat servicii similare cu obiectul de achiziție indicat în anunțul de participare și în documentația de atribuire?	☒ Da ☐ Nu
4C.13.1	<i>Dacă Da, enumerați-le specificând descrierea serviciilor, valoarea lor, durata de execuție, data începerii, beneficiarul și altă informație relevantă.</i>	Nu se aplică
4C.14	În cazul că răspunsul este Da pentru una din întrebările 4C.11 – 4C.13, puteți furniza dovezi prin care se va demonstra îndeplinirea lucrărilor, livrarea bunurilor, prestarea serviciilor similare conform cerințelor documentației de atribuire?	☒ Da ☐ Nu
D. Standarde de asigurare a calității		
4D.1	Operatorul economic este în măsură să furnizeze certificate emise de organisme independente prin care se atestă faptul că operatorul economic respectă standardele de asigurare a calității conform cerințelor stabilite în anunțul de participare și în documentația atribuire?	☒ Da ☐ Nu
4D.2	Informațiile privind standardele de asigurare a calității, sunt disponibile gratuit pentru autorități, dintr-o bază de date națională? Dacă da, specificați informația care ar permite verificarea.	Adresa de internet: https://www.orange.md/ro/util/iso Autoritatea sau organismul emitent(ă): "SCAR CERT" SRL Referința exactă a documentației:

		Certificate ISO 9001 ISO 27001
E. Standarde de protecție a mediului		
4E.1	Operatorul economic este în măsură să furnizeze certificate emise de organisme independente prin care se atestă faptul că operatorul economic respectă standardele de protecție a mediului, conform cerințelor stabilite în anunțul de participare și în documentația de atribuire?	☒ Da ☐ Nu
4E.2	Informațiile privind standardele de protecția mediului, sunt disponibile gratuit pentru autorități, dintr-o bază de date națională? Dacă da, specificați informația care ar permite verificarea.	Adresa de internet: https://siamd.gov.md/portal/deee.html https://www.moldcontrol.md/ro/membri
		Autoritatea sau organismul emitent(ă): “SIAMD”
		Referința exactă a documentației: Registrul Sistemul informațional automatizat Managementul deșeurilor / Moldcontrol. nr. MD2022-5-EEE-001 Nr. MD2022-2-BA-002
F. Permitearea controalelor		
4F.1	Operatorul economic permite efectuarea verificărilor de către autoritatea/entitatea contractantă referitor la capacitățile economice și financiare, de producție sau tehnice privind executarea viitorului contract de achiziție publică?	☒ Da ☐ Nu

Capitolul V. Indicații generale pentru criteriile de calificare și selecție

Compartimentul se completează de către autoritatea/entitatea contractantă (coloana nr.2) și operatorii economici (coloana nr.3).

Cod poziție	Conținutul cerințelor	Răspuns
1	2	3
A. Îndeplinirea tuturor criteriilor de selecție impuse		
5A.1	Operatorul economic este în măsură să furnizeze în Sistemul informațional automatizat „Registrul de stat al achizițiilor publice” sau prin mijloace electronice, sau dacă e cazul, pe suport de hârtie autorității contractante: formularele, certificatele, avizele și alte	☒ Da ☐ Nu

	documente indicate de către autoritatea/entitatea contractantă în anunțul de participare și în documentația de atribuire? Termen 3 zile lucrătoare de la solicitare. <i>Notă. Numărul de zile se indică de către autoritatea contractantă ținând cont de cantitatea și caracterul documentelor solicitate.</i>	
5A.2	Informațiile care să îi permită autorității/entității contractante să obțină documentele indicate în anunțul de participare și în documentația de atribuire, sunt disponibile gratuit și direct prin accesarea unei baze de date naționale în orice stat? Dacă da, specificați informația care ar permite verificarea.	Adresa de internet: Nu exista Autoritatea sau organismul emitent(ă): Î.M. „Orange Moldova” S.A. Referința exactă a documentației: Acte/clarificări la solicitare

Capitolul VI. Preselecția candidaților pentru procedura de atribuire a contractului de achiziție publică

Compartimentul se solicită de către autoritatea contractantă doar în cadrul procedurilor de achiziție publică: licitația restrânsă, negociere, dialog competitiv și parteneriatul pentru inovare.

Cod poziție	Conținutul cerințelor	Răspuns
1	2	3
A.	Îndeplinirea tuturor criteriilor de selecție impuse	
6A.1	Operatorul economic/candidatul îndeplinește criteriile de selecție stabilite de către autoritatea contractantă în anunțul de participare și în documentația de atribuire.	☒ Da ☐ Nu
6A.2	Operatorul economic/candidatul dispune și este în măsură să furnizeze în Sistemul informațional automatizat „Registrul de stat al achizițiilor publice” sau prin mijloace electronice, sau dacă e cazul, pe suport de hârtie autorității contractante certificate sau alte forme de documente justificative, după cum este cerut în anunțul de participare și în documentația de atribuire.	☒ Da ☐ Nu

Capitolul VII. Declarații finale

Operatorul economic declară că informațiile prezentate în capitolele II – V (după caz II-VI) sunt exacte și corect furnizate, cunoscând pe deplin consecințele cazurilor grave de declarații false.

Operatorul economic declară în mod oficial, că poate să furnizeze la solicitarea autorității/entității contractante fără întârziere, certificatele și documentele justificative solicitate, cu excepția cazului în care autoritatea/entitatea contractantă are posibilitatea de a obține documentele justificative în cauză direct prin accesarea unei baze de date relevante, care este disponibilă gratuit, cu condiția că operatorul economic să fi furnizat informațiile necesare (adresa de internet, autoritatea sau organismul emitent(ă), referința exactă a documentației) care să îi permită autorității contractante sau entității contractante să facă acest lucru și se consimte accesul la informațiile menționate, în cazul în care acest lucru este necesar.

Operatorul economic declară în mod oficial că este de acord ca Serviciul Tehnologia Informației și Securitate Cibernetică, astfel cum este descrisă în capitolul I secțiunea A să obțină acces la documentele justificative privind informațiile pe care le-a furnizat în acest DUAE în scopul desfășurării procedurii de achiziție a **Sistemelor de informare și servere**.

Nume: Anatolie Bulgaru

Poziția: Head of B2B IoT and ICT

Î.M. „Orange Moldova” S.A.

Data: 13.11.2023

Locul: Chișinău Republica Moldova

Acest act este semnat prin aplicarea **Semnăturii Mobile**

Verificarea semnăturii - <https://msign.gov.md/#/verify/upload>

*Anexa nr. 12
la Documentația standard
aprobată prin Ordinul Ministrului Finanțelor
nr. 115 din 15.09.2021*

DECLARAȚIE
privind lista principalelor livrări/prestări efectuate în ultimii 3 ani de activitate

Nr d/o	Obiectul contractului	Denumirea/numele beneficiarului/Adresa	Calitatea Furnizorului /Prestatorul ui*)	Prețul contractului/ valoarea bunurilor/serviciilor livrate/prestate	Perioada de livrare/prestare (luni)
1	Echipament IT/Retea IP/Securitate Inf.	B.C. Victoriabank S.A.	contractant unic	360,000.00 USD inclusiv TVA.	Livrare unica anul 2021
2	Echipament IT/Retea IP/Securitate Inf.	B.C. MAIB S.A.	contractant unic	130,000.00 EUR inclusiv TVA.	Livrare unica anul 2022
3	Echipament IT/Retea IP/Securitate Inf.	Noction S.R.L.	contractant unic	20,000.00 USD inclusiv TVA.	Livrare unica anul 2022
4	Echipament IT/Retea IP/Securitate Inf.	I.P. STISC	contractant unic	5,745,000.00 MDL inclusiv TVA	Livrare unica anul 2022
5	Echipament IT/Retea IP/Securitate Inf.	Health Forever International S.R.L.	contractant unic	27,000.00 EUR inclusiv TVA.	Livrare unica anul 2023
6	Echipament IT/Retea IP/Securitate Inf.	I.C.T. Soluții S.R.L.	contractant unic	300,000.00 EUR inclusiv TVA.	Livrare unica anul 2023
7	Echipament IT/Retea IP/Securitate Inf.	IT-Lab Grup S.R.L.	contractant unic	130,000.00 EUR inclusiv TVA.	Livrare unica anul 2023

Data completării 13.11.2023

Cu stimă,
Anatolie Bulgaru
Head of B2B IoT and ICT
Î.M. „Orange Moldova” S.A.

Acest act este semnat prin aplicarea **Semnăturii Mobile**
Verificarea semnăturii - <https://msign.gov.md/#/verify/upload>



AGENȚIA SERVICII PUBLICE

Departamentul înregistrare și licențiere a unităților de drept

EXTRAS

din Registrul de stat al persoanelor juridice

Nr. 526338 data 13.07.2023

Denumirea completă: **Întreprinderea Mixtă "ORANGE MOLDOVA" S.A.**

Denumirea prescurtată: **Î.M. "ORANGE MOLDOVA" S.A.**

Forma juridică de organizare: **Societate pe acțiuni de tip închis,**

Numărul de identificare de stat și codul fiscal (IDNO): **1003600106115**

Data înregistrării de stat: **18.03.1998**

Modul de constituire: **nou creată.**

Sucesiunea în drept: Întreprinderea Mixtă "ORANGE MOLDOVA" S.A., IDNO 1003600106115 din 18.03.1998, este succesoarea tuturor drepturilor și obligațiilor Societății cu Răspundere Limitată "SUN COMMUNICATIONS", (IDNO 1003600061928) ca urmare a reorganizării acesteia prin fuziune (absorbție) în conformitate cu Contractul de fuziune din 25.04.2023 și Actul de transmitere (primire-predare) din 25.04.2023.

Sediul: **MD-2071, str. Alba-Iulia, 75, mun. Chișinău, Republica Moldova.** tel.

Obiectul principal de activitate:

- 1. Telecomunicații**
- 2. Repararea aparatelor de radio și televiziune**

Capitalul social: **179499609 lei,**

Administrator: **SURUGIU OLGA, IDNP 0981202021274, în funcție pînă la data de 31.03.2025**

Prezentul extras este eliberat în temeiul art.34 al Legii nr.220-XVI din 19 octombrie 2007 privind înregistrarea de stat a persoanelor juridice și a întreprinzătorilor individuali și confirmă datele din Registrul de stat la data de: **13.07.2023.**

Registrator în domeniul
înregistrării de stat

S. 13



Novac Stela



EB 0435055

REPUBLICA



MOLDOVA

CERTIFICAT DE ÎNREGISTRARE

ÎNȚREPRINDEREA MIXTĂ "ORANGE MOLDOVA" S.A.
ESTE ÎNREGISTRATĂ LA CAMERA ÎNREGISTRĂRII DE STAT

Numărul de identificare de stat - codul fiscal
1003600106115

Data înregistrării

18.03.1998

Data eliberării

24.04.2007

Bolboceanu Adela, registrator de stat

*Funcția, numele, prenumele persoanei
care a eliberat certificatul*

semnatura

MD 0067000



Manufacturer's Authorization Form

To:

INTREPRINDEREA MIXTA ORANGE MOLDOVA, SA
75 str. Alba-Iulia
Chişinău, Moldova

Re: Tender # ocds-b3wdp1-MD-1697031896978; 13 nov 2023

Dear Sirs

This is to confirm that Hewlett Packard Enterprise B.V., Amstelveen, Meyrin Branch (herein "HPEBV") is aware of the following:

- INTREPRINDEREA MIXTA ORANGE MOLDOVA, SA 75 str. Alba-Iulia Chişinău, Moldova (herein "HPE Partner") intends to submit a bid on the tender ocds-b3wdp1-MD-1697031896978; 13 nov 2023- Sisteme de informare si servere to Service of Information Technology and Cybersecurity mun. Chisinau, Piata Marii Adunari Nationale, 1 MD-2033 (herein the "Customer") which includes the following HPE-Hybrid IT products (herein "HPE Products"):
HPE ProLiant DL380 Gen11 servers

; and
- If the bid is awarded to the HPE Partner, the HPE Partner will subsequently negotiate and sign a contract, subject exclusively to the terms and conditions between the Customer and HPE Partner, for the supply to the Customer of an IT solution including above mentioned HPE Products.

HPEBV acknowledges that HPE Partner is, at the date of this letter, a non-exclusive HPE authorized reseller, for the sale of above mentioned HPE Products. In the framework of the above-mentioned bid and its potential subsequent contract, HPE Partner is acting in its own name and on its own behalf, and has no right, power or authority to create any obligation or duty, express or implied, on behalf of HPEBV.

HPE is only responsible for providing standard warranty on the Products as per HPE standard warranty terms and conditions applicable to Moldova. The delivery of the HPE standard product warranty is provided by either the local HPE office in Moldova, or a local HPE authorized support provider.

Respectfully yours,

Geneva, 09/11/2023

Hewlett Packard Enterprise B.V.
Amstelveen, Meyrin Branch



Biljana Weber
SVP and Managing Director



**Hewlett Packard
Enterprise**

TO WHOM IT MAY CONCERN

Hewlett Packard Enterprise B.V., Amstelveen, Meyrin Branch, Route du Nant d'Avril 150, 1217, Meyrin 2/Geneva, Switzerland (herein referred to as "HPE") hereby certifies that

Elcore Distribution AG
Bahnhofstrasse 10
CH6302 - Zug
Switzerland
(herein "Distributor")

is presently an HPE authorized Distributor in Georgia, Armenia, Moldova, Turkmenistan, Tadjikistan and Uzbekistan for the sale of selected HPE products as per the terms of the Hewlett Packard Enterprise Partner (Distributor) Agreement No. 2BO13, signed with HPE.

The relationship of HPE and Distributor is that of independent contractors. Distributor is neither an agent nor a representative of HPE.

Geneva, 16.08.19

Hewlett Packard Enterprise B.V.
Amstelveen, Meyrin Branch

*Hewlett Packard Enterprise B.V.
Amstelveen, Meyrin Branch
Europe, Middle-East & Africa Operation
Route du Nant d'Avril 150
CH-1217 Meyrin 2
Geneva, Switzerland*

Bertrand Germe
WW Sales Channel Development Manager

Hewlett Packard Enterprise B.V., Amstelveen
Meyrin Branch
route du Nant-d'Avril 150, 1217 Meyrin
Switzerland
hpe.com



**Hewlett Packard
Enterprise**

INTREPRINDEREA MIXTA ORANGE MOLDOVA, SA

Moldova

Qualifies as Business HPE Partner Ready Solution Provider for Fiscal Year 2023

Simon Ewington
WW Head of Partner Sales

Manufacturer's Name: Hewlett Packard Enterprise Company
Manufacturer's Address: 11445 Compaq Center Drive West, Houston, TX 77070, USA

declares under its sole responsibility that the product:

Product Name and/or Model: HPE ProLiant DL380 Gen11; HPE ProLiant DX380 Gen11
Regulatory Model Number: TPS-I024
Product Options: All

conforms to the following product specifications and regulations:

Safety

EN 62368-1:2014
EN 62368-1:2014/AC:2015
IEC 62368-1:2018
EN 62479:2010

Electromagnetic Compatibility

EN 55032:2015/A11:2020 Class A
EN 55035:2017/A11:2020
EN 61000-3-2:2014
EN 61000-3-3:2013

Ecodesign

Regulation (EU) 2019/424
EN 303 470 V1.1.1

Restriction of the use of certain hazardous substances (RoHS)
EN IEC 63000:2018

The product complies with the requirements of Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits, Directive 2014/30/EU relating to electromagnetic compatibility, Directive 2009/125/EC establishing a framework for the setting of ecodesign requirements for energy-related products, Directive 2011/65/EU as amended on the restriction of the use of certain hazardous substances in electrical and electronic equipment, and carries the CE marking accordingly.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Additional Information

This product is assigned a Regulatory Model Number which stays with the regulatory aspects of the design. The Regulatory Model Number is the main product identifier in the regulatory documentation and test reports, this number should not be confused with the marketing name or the product numbers. Any product bearing this Regulatory Model Number that does not carry the CE marking is not compliant with all the requirements listed above and may not be placed on the EU market.



Houston, TX
20.02.2023

Bryan Vanalstyne, Regulatory Manager
HPE, Houston Product Compliance Center

Contact for regulatory topics only

EU: HPE, Postfach 0001, 1122 Wien, Austria
US: Hewlett Packard Enterprise Company, 1701 East Mossy Oaks Road, Spring, Texas 77389, United States of America (U.S.), 1-844-806-3425

<http://www.hpe.com/eu/certificates>

"Elcore Distribution" SRL
IDNO 1015600016392
Alba Iulia 75, bloc N, oficiul 307,
Chisinau, Moldova
Tel: +373 (22) 909 128
E-mail: officeMD@elcoregroup.com

IBAN:
MD02ML000000002251403175
SWIFT Code: MOLDMD2X303
BC "Moldindconbank" SA
fil. Alba-Iulia



09 November 2023

To: "I.M. Orange Moldova S.A."

Object of purchase: nr. licitatie ocds-b3wdp1-MD-1697031896978

Distributor Authorization Form

As the official distributor of the **Hewlett Packard Enterprise** on the territory of Moldova we - **Elcore Distribution SRL**, hereby confirm that **I.M. Orange Moldova S.A.** in case of signing the contract and delivering, the goods will be supplied through authorized distributor mentioned below:

VENDOR	Description of goods
HP Enterprise	– HPE ProLiant DL380 Gen11 servers

The Goods mentioned above are covered with a **Vendor's global guarantee**.

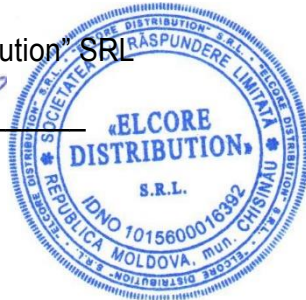
Authorized HPE Partner Ready for Services Delivery – S&T Mold SRL, Chisinau, 8 Calea Iesilor Str.

Alexandr Gorodetski

Director, "Elcore Distribution" SRL

A handwritten signature in blue ink, appearing to be 'AG', written over a horizontal line.

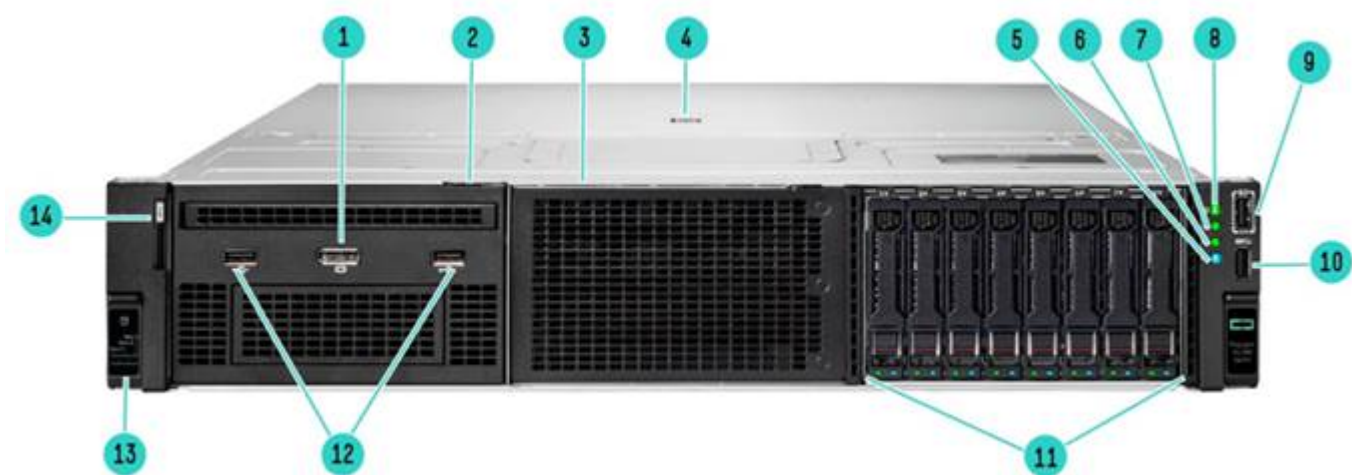
(signature)



Overview

HPE ProLiant DL380 Gen11

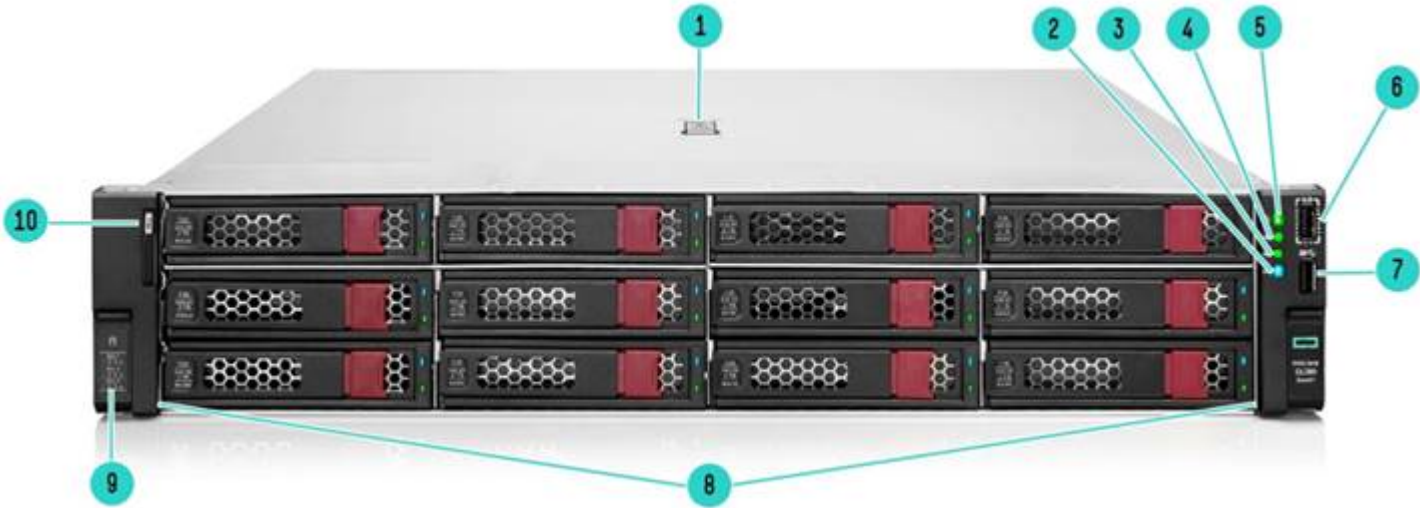
Adaptable for diverse workloads and environments, the secure 2P 2U HPE ProLiant DL380 Gen11 delivers world-class performance with the right balance of expandability and scalability. Designed for supreme versatility and resiliency while being backed by a comprehensive warranty make it ideal for multiple environments from Containers to Cloud to Big Data. Standardize on the industry's most trusted compute platform.



Front View - SFF chassis with optional Universal Media bay shown

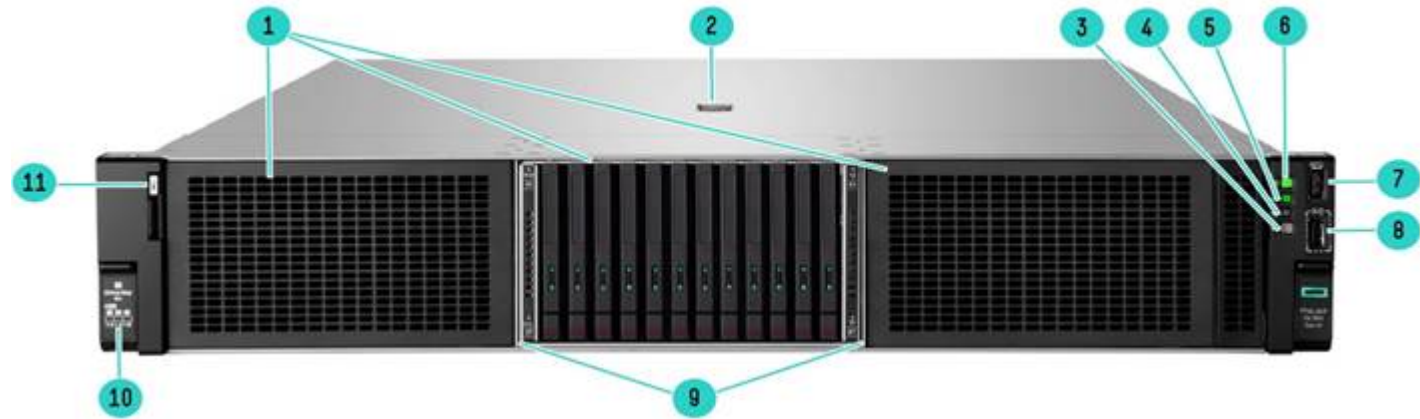
- | | |
|--|--|
| 1. Optional Front Display Port (via Universal Media Bay) | 8. Power On / Standby button and LED |
| 2. Box 1 (shown with optional Universal Media Bay installed) | 9. iLO Service Port |
| 3. Box 2 (shown blank) | 10. USB 3.2 Gen1 |
| 4. Quick removal access panel | 11. Box 3 (shown with 8SFF drives populated) |
| 5. UID button/LED | 12. Optional USB 2.0 (via Universal Media Bay) |
| 6. NIC Status | 13. Drive Support Label |
| 7. Health LED | 14. Serial Number Label Pull Tab |

Overview



Front View - 12LFF chassis shown

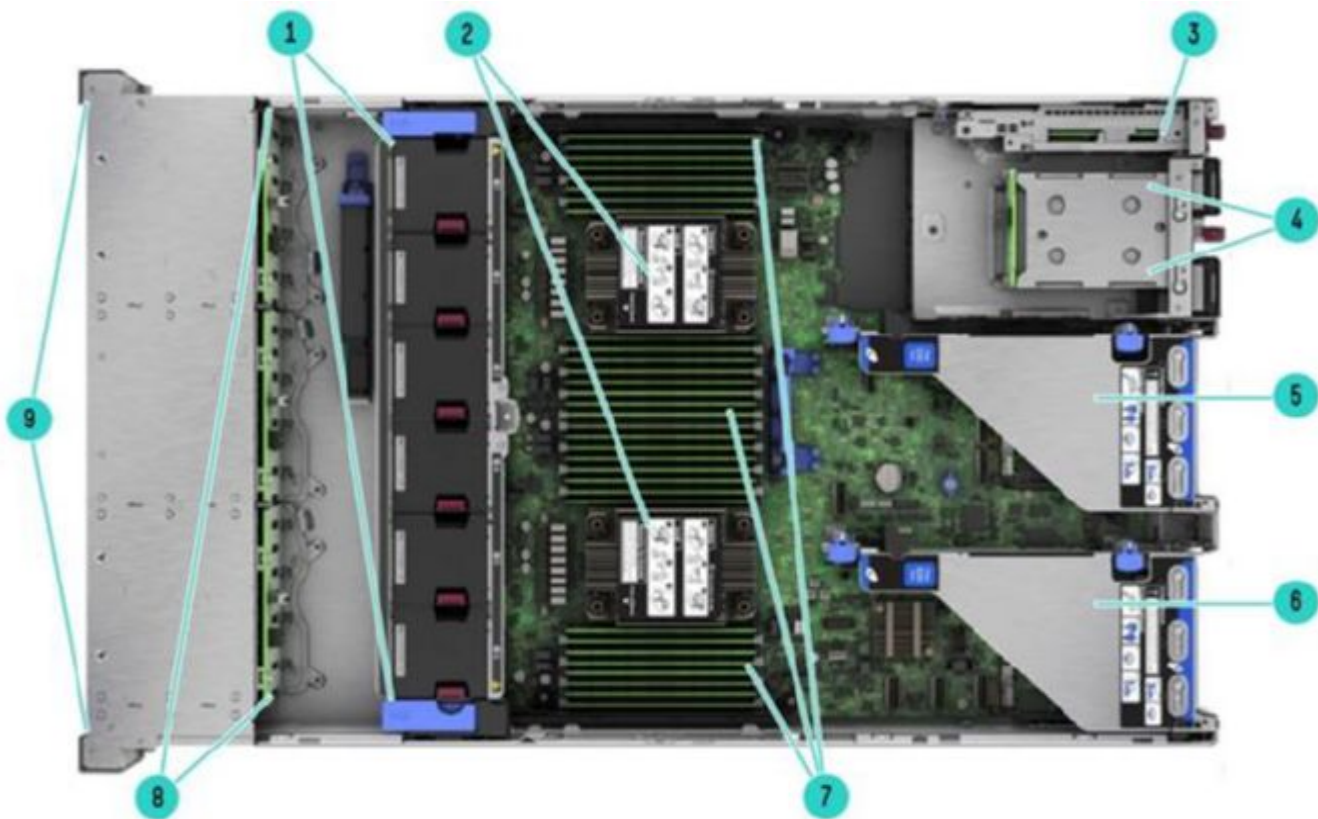
- | | | | |
|----|-----------------------------------|-----|------------------------------|
| 1. | Quick removal access panel | 6. | iLO Service Port |
| 2. | UID Button / LED | 7. | USB 3.2 Gen1 |
| 3. | NIC Status | 8. | 12 x LFF Media |
| 4. | Health LED | 9. | Drive support label |
| 5. | Power On / Standby button and LED | 10. | Serial Number Label Pull Tab |



Front View -12EDSFF chassis shown

- | | | | |
|---|-----------------------------------|----|------------------------------|
| 1 | 12EDSFF drive bays optical drive | 7 | iLO Service Port |
| 2 | Quick removal access panel | 8 | USB 3.2 Gne1 |
| 3 | UID Button / LED | 9 | 12x EDSFF Media |
| 4 | NIC Status | 10 | Drive support label |
| 5 | Health LED | 11 | Serial Number Label Pull Tab |
| 6 | Power On / Standby button and LED | | |

Overview



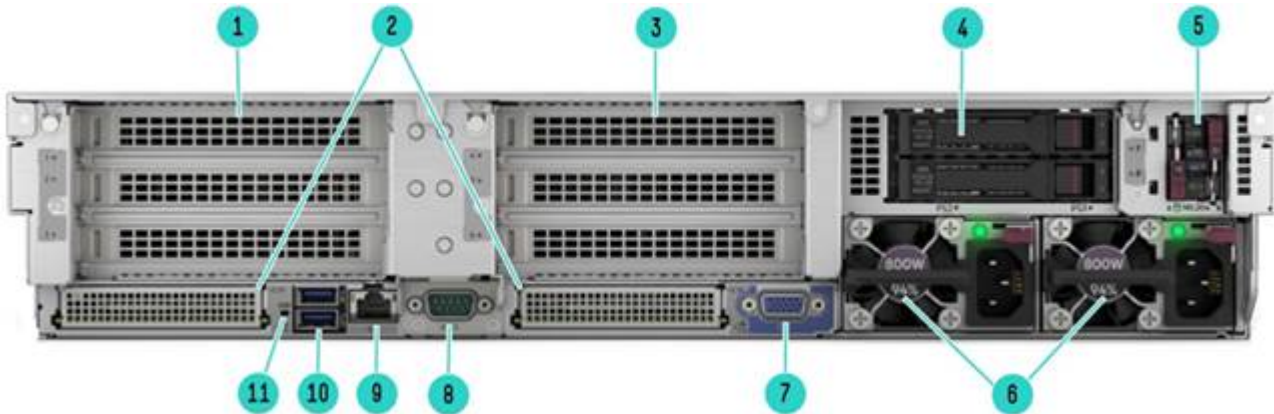
Internal View 8SFF chassis

- | | |
|---|--|
| 1. Hot Plug Fans ¹ | 6. Primary Riser |
| 2. Processors, heatsinks showing | 7. DDR5 DIMM slots, shown fully populated in 32 slots ² |
| 3. Optional NS204i-u Boot Device | 8. Drive Backplanes |
| 4. Hot Plug redundant HPE Flexible Slot Power Supplies | 9. Drive Cages |
| 5. Secondary Riser (Optional) (Requires second processor) | |

Notes:

- ¹High performance temperature fans optional
- ²Shown fully populated in 32 slots (16 per processor)

Overview



Rear View - Standard for all DL380 Gen11

- | | |
|---|----------------------------------|
| 1. Primary Riser. PCIe 5.0 Slots (Slots 1-3) | 6. Power Supply 1 and 2 |
| 2. OCP 3.0 Slots, shown covered | 7. VGA Connector |
| 3.. Secondary Riser. PCIe 5.0 Slots (Slots 4-6) | 8. Optional Serial Port |
| 4. Tertiary Riser (Slots 7-8) shown with optional 2SFF drive cage installed | 9. Dedicated iLO Management Port |
| 5. Optional NS204i-u Boot Device | 10. USB 3.2 Gen1 Connectors (2) |
| | 11. UID Indicator LED |

Notes: ¹ Supports various NICs, and Storage controllers.

What's New

- New Intel® Data Center GPU Max 1100

Platform Information

Form Factor

- 2U rack

Chassis Types

- 8SFF (SAS/SATA/NVMe) with optional SFF Universal Media Bay (P50728-B21), and/or up to 6SFF rear drive bay options
- 24SFF bay (SAS/SATA/NVMe) with up to 6SFF rear drive bay options to a total 30 SFF drives
- 8LFF supporting 2SFF front, and up to 4LFF rear or 2SFF rear drive bay options
- 12LFF with optional 4LFF rear for a total 16LFF drives

Notes:

- The 8SFF chassis can be upgraded to support up to 24SFF (front) with a variety of 8SFF Drive Cages to select from, including 8SFF U.3 x4/x2 Trimode, 8SFF U.3 (x1 Trimode), and 8SFF SAS/SATA. See "Drive Cages" section within this document for options.
- The 8SFF chassis comes with an 8SFF U.3 x1 drive bay by default in bay 3.
- The Universal Media Bay (P50728-B21) is only available as an option for the 8SFF chassis and can only be populated in Box 1.
- The 2 LFF primary and 2LFF secondary rear cages will consume all PCIe slots for the primary and secondary riser, respectively
- The 8 LFF chassis cannot be upgraded to 12 LFF front in the field.
- The 2 LFF primary and 2LFF secondary rear cages supported in LFF chassis only.

Overview

System Fans

- High Performance Fan Kit - required for all CPUs over 205W TDP

Notes:

- On 8SFF CTO server models ship with 4 standard fans.
 - The 12 LFF and 8LFF CTO server models ship with 4 standard fans.
 - The 24 SFF CTO server model ships with 6 high performance fans.
 - The High Performance fan kit (P48820-B21) is available to meet ambient temperature requirements.
 - In general, the Maximum Performance fan kit is required when rear drives, or >205W Processors SKUs, or High Performance NVMe drives, three drive cages, mid-tray, GPU card, or certain backplanes are populated. See notes under each option category or each individual option for specifics.
-

Standard Features

Processors - Up to 2 of the following depending on model.

The 2nd digit of the processor model number "x4xx" is used to denote the processor generation (i.e. 4=4th generation Intel Scalable Series Processors)

For more information regarding Intel Xeon processors, please see the following

<http://www.intel.com/xeon>.

This table covers the public Intel offering only.

Processor Suffix	Description	Offering
H	DB and Analytics	Highest core counts. Database and Analytics usages benefit from DSA and IAA accelerators.
M	Media Transcode	Optimized around AVX frequencies to deliver better performance/watt around Media, AI, and HPC workloads.
N	Network/5G/Edge (High TPT / Low Latency)	Designed for NFV and networking workloads, such as: L3 fwding, 5G UPF, OVS DPDK, VPP FIB router, VPP IPsec, web server/NGINX, vEPC, vBNG, and vCMTS.
S	Storage and HCI	Optimized for Storage UMA use cases with increased UPI Bandwidth for vs Mainline SKUs.
P	Cloud - IAAS	Designed for cloud IaaS environments to deliver higher frequencies at constrained TDPs.
Q	Liquid Cooling	Liquid cooled processors with higher frequency and performance at same TDP.
U	1 Socket Optimized	Optimized for targeted platforms adequately served by the cores, memory bandwidth and IO capacity available from a single processor
V	Cloud - SAAS	Optimized for orchestration efficiency that delivers higher core counts and VMs per rack.
Y	Speed Select	Intel® SST-PP increases base frequency when fewer cores are enabled. Allows greater flexibility, deployment options and platform longevity.

4th Generation Intel® Xeon® Scalable Processor Family (Platinum)

Intel Xeon Models	CPU Frequency	Cores	L3 Cache (MB)	Power	UPI Links	DDR5	SGX Enclave size (GB)
Platinum 9462 Processor ²	2.7GHz	32	75	350W	3	4800 MT/s	128
Platinum 8490H Processor	1.9GHz	60	112.5	350W	4	4800 MT/s	512
Platinum 8480+ Processor	2.0GHz	56	105	350W	4	4800 MT/s	512
Platinum 8470 Processor	2.0GHz	52	105	350W	4	4800 MT/s	512
Platinum 8470N Processor	1.7GHz	52	97.5	300W	4	4800 MT/s	128
Platinum 8470Q Processor ¹	2.1GHz	52	105	350W	4	4800 MT/s	512
Platinum 8468 Processor	2.1GHz	48	105	350W	4	4800 MT/s	512
Platinum 8468V Processor	2.4GHz	48	97.5	330W	3	4800 MT/s	128

Standard Features

Platinum 8462Y+ Processor	2.8GHz	32	60	300W	3	4800 MT/s	128
Platinum 8460Y+ Processor	2.0GHz	40	105	300W	4	4800 MT/s	128
Platinum 8458P Processor	2.7GHz	44	82.5	350W	3	4800 MT/s	512
Platinum 8452Y Processor	2.0GHz	36	67.5	300W	3	4800 MT/s	128
Platinum 8444H Processor	2.9GHz	16	45	270W	4	4800 MT/s	512

Notes:

- Processors do not ship with heatsinks or fan kits, these must be ordered separately.
- Processors with TDP equal to or greater than 150W through 350W require High Performance Heatsink (P48818-B21)
- Processors with TDP greater than 150W through 350W and mid-tray drive cage require HPE DL3xx/560 Gen11 High Performance Heatsink (P48905-B21)
- "Q" processors require Max Performance Heatsink (P48817-B21)
- Processors with TDP equal to or less than 150W require Standard Heatsink (P49145-B21)
- 8-Channel DDR5 @ 4800 MT/
- 2 socket capable, 4 UPI @ 16 GT/s.
- ¹Liquid cooled CPUs require Maximum Performance Heat Sink (P48817-B21). One heatsink covers both CPUs.
- ² This is Intel High Bandwidth Memory (HBM) CPU.

4 th Generation Intel® Xeon® Scalable Processor Family (Gold)							
Intel Xeon Models	CPU Frequency	Cores	L3 Cache (MB)	Power	UPI Links	DDR5	SGX Enclave size (GB)
Gold 6454S Processor	2.2GHz	32	60	270W	4	4800 MT/s	128
Gold 6448H Processor	2.4GHz	32	60	250W	3	4800 MT/s	512
Gold 6430 Processor	2.1GHz	32	60	270W	3	4800 MT/s	128
Gold 6414U Processor ¹	2.0GHz	32	60	250W	0	4800 MT/s	128
Gold 6458Q Processor	3.1GHz	32	60	350W	3	4800 MT/s	128
Gold 6448Y Processor	2.1GHz	32	60	225W	3	4800 MT/s	128
Gold 6444Y Processor	3.6GHz	16	45	270W	3	4800 MT/s	128
Gold 6442Y Processor	2.6GHz	24	60	225W	3	4800 MT/s	128
Gold 6438N Processor	2.0GHz	32	60	205	3	4800 MT/s	128
Gold 6438Y+ Processor	2.0GHz	32	60	205W	3	4800 MT/s	128
Gold 6434 Processor	3.7GHz	8	22.5	195W	3	4800 MT/s	128

Standard Features

Gold 6426Y Processor	2.5GHz	16	37.5	185W	3	4800 MT/s	128
Gold 6421N Processor	1.8GHz	32	60	185	0	4400 MT/s	128
Gold 6418H	2.1GHz	24	60	185W	3	4800 MT/s	512
Gold 6416H	2.2GHz	18	45	165W	3	4800 MT/s	512
Gold 5415+ Processor	2.9GHz	8	22.5	150W	3	4400 MT/s	128
Gold 5416S Processor	2.0GHz	16	30	150W	3	4400 MT/s	128
Gold 5418N Processor	1.8GHz	24	45	165W	3	4000 MT/s	128
Gold 5418Y Processor	2.0GHz	24	45	185W	3	4400 MT/s	128
Gold 5420+ Processor	2.0GHz	28	52.5	205W	3	4400 MT/s	128
Gold 5411N Processor	1.9GHz	24	45	165W	0	4400 MT/s	128

Notes:

- Processors do not ship with heatsinks or fan kits, these must be ordered separately.
- Processors with TDP greater than 150W through 350W require High Performance Heatsink (P48818-B21)
- Processors with TDP greater than 150W through 350W and mid-tray drive cage require HPE DL3xx/560 Gen11 High Performance Heatsink (P48905-B21)
- "Q" processors require Max Performance Heatsink (P48817-B21)
- Processors with TDP equal to or less than 150W require Standard Heatsink (P49145-B21)
- 8-Channel DDR5 @ 4800 MT/s
- ¹Single socket processor. No dual socket support.

4 th Generation Intel® Xeon® Scalable Processor Family (Silver)							
Intel Xeon Models	CPU Frequency	Cores	L3 Cache (MB)	Power	UPI Links	DDR5	SGX Enclave size (GB)
Silver 4410Y Processor	2.0GHz	12	30	150W	2	4000 MT/s	64
Silver 4416+ Processor	2.0GHz	20	37.5	165W	2	4000 MT/s	64

Notes:

- Processors do not ship with heatsinks or fan kits, these must be ordered separately.
- Processors with TDP greater than 150W through 350W require High Performance Heatsink (P48818-B21)
- Processors with TDP greater than 150W through 350W and mid-tray drive cage require HPE DL3xx/560 Gen11 High Performance Heatsink (P48905-B21)
- Processors with TDP equal to or less than 150W require Standard Heatsink (P49145-B21)

4 th Generation Intel® Xeon® Scalable Processor Family (Bronze)							
Intel Xeon Models	CPU Frequency	Cores	L3 Cache (MB)	Power	UPI Links	DDR5	SGX Enclave size (GB)
Bronze 3408U	1.8GHz	8	22.5	125W	0	4000 MT/s	64

Standard Features

Notes:

- Processors do not ship with heatsinks or fan kits, these must be ordered separately.
- Processors with TDP equal to or less than 150W require Standard Heatsink (P49145-B21)

Chipset

Intel C741 Chipset

Notes: For more information regarding Intel® chipsets, please see the following URL:
<https://www.intel.com/content/www/us/en/products/chipsets/server-chipsets.html>

On System Management Chipset

HPE iLO 6 ASIC

Read and learn more in the [iLO QuickSpecs](#).

Memory

One of the following depending on model.

Type	HPE DDR5 Smart Memory, Registered (RDIMM)
DIMM Slots Available	32 16 DIMM slots per processor, 8channels per processor, 2 DIMMs per channel
Maximum capacity	8.0 TB 32 x 256 GB RDIMM @ 4800 MT/s (32 DIMMs only with 8SFF or 16SFF, 16 DIMMs maximum with 24SFF)

Notes: The maximum memory speed is limited by the processor selection.

Expansion Slots

Primary Riser

Notes:

- Bus width indicates the number of physical electrical lanes running to the connector.
- There are 2 types of risers supported on Primary Slot
- x16 cards installed on x8 slots could observe sub-optimal performance.

Primary Riser1					
Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
1	PCIe 5.0	X8	X16	Full-height,full-length slot	Proc 1
2	PCIe 5.0	X16	X16	Full-height,full-length slot	Proc 1
3	PCIe 5.0	X8	X16	Full-height,half-length slot	Proc 1

Standard Features

Primary Riser2					
Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
1**	NA	NA	NA	NA	NA
1	PCIe 5.0	X16	X16	Full-height,full-length slot	Proc 1
2	PCIe 5.0	X16	X16	Full-height,full-length slot	Proc 1
3	PCIe 5.0	X16	X16	Full-height,half-length slot	Proc 1

Notes: ** If Slot 1 of HPE DL380 Gen11 2U 3x16 Prim Riser Kit needs to be enabled then 3 x16 Primary Cable Kit (P56073-B21)must be selected..

Secondary Riser:

Notes:

- Bus Width Indicates the number of physical electrical lanes running to the connector.
- There are 2 types of risers support on Secondary Slot
- x16 cards installed on x8 slots could observe sub-optimal performance.

Secondary Riser1					
Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
4	PCIe 5.0	X8	X16	Full-height,full-length slot	Proc 2
5	PCIe 5.0	X16	X16	Full-height,full-length slot	Proc 2
6	PCIe 5.0	X8	X16	Full-height,half-length slot	Proc 2

Secondary Riser2					
Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
4*	NA	NA	NA	NA	NA
4	PCIe 5.0	X16	X16	Full-height,full-length slot	Proc 2
5	PCIe 5.0	X16	X16	Full-height,full-length slot	Proc 2
6	PCIe 5.0	X16	X16	Full-height,half-length slot	Proc 2

Notes: * If Slot 4 of HPE DL380 Gen11 2U 3x16 Sec Riser Kit needs to be enabled then 3 x16 Secondary Cable Kit (P56074-B21) must be selected.

Tertiary Riser

Notes:

- Bus Width Indicates the number of physical electrical lanes running to the connector.
- There is 1 type of riser supported on the Tertiary Slot
- x16 cards installed on x8 slots could observe sub-optimal performance.

Standard Features

Tertiary Riser1 (default)					
Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
7	PCIe 5.0	X16	X16	Full-height,full-length slot	Proc 2
8	PCIe 4.0	X16	X16	Full-height,full-length slot	Proc 2

Tertiary Riser1 (with Optional Tertiary Riser FIO x8 Enablement Kit P53632-B21)					
Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
7	PCIe 5.0	X16	X16	Full-height,full-length slot	Proc 2
8	PCIe 5.0	X8	X16	Full-height,full-length slot	Proc 2

Graphics

Integrated Video Standard

- Video modes up to 1920 x 1200@60Hz (32 bpp)
- 16MB Video Memory

Maximum Internal Storage

Drive	Capacity	Configuration
Hot Plug SFF SAS HDD	91.2 TB	24+8+6 x 2.4TB
Hot Plug SFF SAS SSD	583.3 TB	24 +8+6 15.35TB
Hot Plug SFF SATA HDD	76 TB	24+8+6 x 2 TB
Hot Plug SFF SATA SSD	291.84 TB	24 +8+ 6 x 7.68 TB
Hot Plug LFF SAS HDD	360 TB	12+4+4x 18 TB (with optional rear LFF drive cage)
Hot Plug LFF SATA HDD	360 TB	12+4+4 x 18 TB (with optional rear LFF drive cage)
Hot Plug SFF NVMe PCIe SSD	374.4 TB	24+ x 15.36TB + 6 x 960GB<10W (with optional rear Primary and Secondary 2SFF and rear 2SFF drive cages)

Internal Storage Devices

- Optical Drive
 - Optional: DVD-ROM, DVD-RW
- Hard Drives
 - None ship standard

Power Supply

Standard Features

- HPE 1800W-2200W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit
Notes: 1 available in 96% efficiency.
- HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
Notes: 1 available in 94% efficiency.
- HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
- HPE 1000W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit
Notes: 1 available in 96% efficiency.
- HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
Notes: 1 available in 94% efficiency.

HPE Flexible Slot (Flex Slot) Power Supplies share a common electrical and physical design that allows for hot plug, tool-less installation into HPE ProLiant Gen11 Performance Servers. Flex Slot power supplies are certified for high-efficiency operation and offer multiple power output options, allowing users to "right-size" a power supply for specific server configurations. This flexibility helps to reduce power waste, lower overall energy costs, and avoid "trapped" power capacity in the data center.

The standard 6-foot IEC C-13/C-14 jumper cord (A0K02A) is included with each standard AC power supply option kit. If a different power cord is required, please check the [ProLiant Power Cables](#) web page. To review the power requirements for your selected system, please use the [HPE Power Advisor Tool](#).

For information on power specifications and technical content visit [HPE Server power supplies](#).

Storage Controllers

The available Gen11 controllers are depicted below.

Software RAID Controller

- Intel VROC SATA for HPE ProLiant Gen11

Notes:

- All models feature an embedded storage controller, with embedded software SATA RAID support for up to 14 bays.
- Intel VROC for HPE ProLiant Gen11 is an enterprise, hybrid Software RAID solution specifically designed for SSDs.
- Intel VROC is a software-based solution utilizing Intel CPU to RAID or HBA direct connected drives.
- RAID Support- 0/1/5/10.
- Windows and Linux OS support.
- Host Tools- Windows GUI/CLI, Linux CLI.
- UEFI Support- HII Utility, OBSE.
- iLO Support- IML, Alert, SNMP, AHS.
- iLO Redfish- Redfish Read .
- Intel VROC SATA for HPE ProLiant Gen11 will operate in UEFI mode only. For legacy support an additional storage controller will be needed.
- Intel VROC SATA is off by default and must be enabled.

- Intel VROC NVMe for HPE ProLiant Gen11

Notes:

Standard Features

- All models feature 4 x8 PCIe 5.0 connectors per socket for NVMe connectivity, provides support for up to 8 direct attach x4 NVMe bays.
- Only supported on SFF models.
- Intel VROC for HPE ProLiant Gen11 is an enterprise, hybrid Software RAID solution specifically designed for NVMe SSDs connected directly to the CPU. Intel VROC is a software-based solution utilizing Intel CPU to RAID or HBA direct connected drives.
- Intel Virtual RAID on CPU Standard for RAID 0/1/10 (S0E37A/S0E38AAE) or Premium SKU for RAID 0/1/5/10 (R7J57A/R7J59AAE) must be ordered to enable RAID support.
- Windows, Linux, VMware OS support.
- Host Tools- Windows GUI/CLI, Linux CLI.
- UEFI Support- HII Utility, OBSE.
- Active health monitoring of NVMe M.2 drives requires use of SMART tools.
- Intel VROC NVMe for HPE ProLiant Gen11 will operate in UEFI mode only. For legacy support an additional Tri-Mode controller will be needed.
- For NVMe SSDs only, no PCIe card support.

Essential RAID Controller

- HPE Smart Array E208e-p SR Gen10 Controller

Tri-Mode Controller

- HPE MR416i-p Gen11 Controller
- HPE MR416i-o Gen11 Controller
- HPE MR216i-p Gen11 Controller
- HPE MR216i-o Gen11 Controller
- HPE MR408i-o Gen11 Controller
- HPE SR932i-p Gen11 Controller^{1,2}

Notes:

- PE80xx NVMe drives are not supported.
- ¹Requires x16 physical and electrical riser slot
- ²If second controller is required, must select secondary riser
- Controllers with cache require either P02377-B21 HPE Smart Storage Hybrid Capacitor with 145mm Cable Kit or P01366-B21 HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit.

Interfaces

Standard Features

Serial	Optional, rear
Display Port	1 optional front display port via Universal Media Bay
VGA Port	1 standard, rear for all chassis. 1 Optional front display port (Via Universal Media Bay) Notes: Both ports are not active simultaneously.
Network Ports	None standard. Choice of OCP networking card or stand-up networking card required. BTO models will come pre-selected with a primary networking card.
HPE iLO Remote Management Network Port	1 Gb Dedicated, rear
Front iLO Service Port	1 standard (Not available when System Insight Display Kit is ordered)
USB 3.2 Gen1	Up to 4 total: 1 front(3.2 Gen1), 2 rear(3.0), 2 internal (secure - 1 - 3.2 Gen1, 1 - 2.0), 1 optional USB 2.0 front via Universal Media Bay
Systems Insight Display (SID)	Optional Notes: Not shipping as standard. Available as a CTO option or as a field upgrade (P48819-B21).

Operating Systems and Virtualization Software Support for ProLiant Servers

See HPE Servers Support & Certification Matrices (For OS support for HBM, refer to the OS Certification Matrices.)

- Microsoft Windows Server
- VMware ESXi This does not include support for Intel High Bandwidth Memory (HBM) processors.
- Red Hat Enterprise Linux (RHEL)
- SUSE Linux Enterprise Server (SLES)
- Canonical Ubuntu
- Oracle Linux and Oracle VM

HPE Server UEFI

Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability and more secured configuration than the legacy ROM while interacting with your server at boot time. HPE ProLiant Gen11 servers have a UEFI Class 2 implementation to support UEFI Mode.

Notes: The UEFI System Utilities tool is analogous to the HPE ROM-Based Setup Utility (RBSU) of legacy BIOS. For more information, please visit <http://www.hpe.com/servers/uefi>.

UEFI enables numerous new capabilities specific to HPE ProLiant servers such as:

- Secure Boot and Secure Start enable for enhanced security
- Embedded UEFI Shell
- Operating system specific functionality
- Mass Configuration Deployment Tool using iLO RESTful API that is Redfish API Conformant
- Support for > 2.2 TB (using GPT) boot drives
- PXE boot support for IPv6 networks
- USB 3.0 Stack
- Workload Profiles for simple performance optimization

UEFI Boot Mode only

Standard Features

- TPM 2.0 Support
Notes: Enabling TPM 2.0 no longer requires TPM module option kit for Gen11. It is an embedded feature.
- iSCSI Software Initiator Support.
- NVMe Boot Support
- HTTP/HTTPS Boot support as a PXE alternative.
- Platform Trust Technology (PTT) can be enabled.
- Boot support for option cards that only support a UEFI option ROM

Notes: For UEFI Boot Mode, boot environment and OS image installations should be configured properly to support UEFI.

Industry Standard Compliance

- ACPI 6.3 Compliant
- PCIe 5.0 Compliant
- Wake on LAN (WoL) Support
- Microsoft® Logo certifications
- PXE Support
- VGA
- Display Port
Notes: This support is on the optional Universal Media Bay.

- USB 3.2 Gen1 Compliant
- USB 2.0 Compliant (via Universal Media Bay)
Notes: This support is on the optional Universal Media Bay.

- Energy Star
- SMBIOS 3.2
- Redfish API
- IPMI 2.0
- Secure Digital 4.0
- TPM 1.20 and 2.0 Support
Notes: Enabling TPM 2.0 no longer requires TPM module option kit for Gen11. It is an embedded feature.

- Advanced Encryption Standard (AES)
- Triple Data Encryption Standard (3DES)
- SNMP v3
- TLS 1.2
- DMTF Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP)
- Active Directory v1.0
- ASHRAE A3/A4

Notes: For additional technical, thermal details regarding ambient temperature, humidity, and feature support, please visit [DL380 Gen11 Extended Ambient Temperature Guidelines](#)

- European Union Erp Lot 9 Regulation
Notes:
 - Beginning on January 1st, 2024, units sold into the European Union (EU), European Economic Area (EEA), the United Kingdom, or Switzerland must include more efficient AC power supplies: 94% for multi-output and 96% for single-output. HPE Flexible Slot power supplies are single-output, and part numbers 865438-B21, P03178-B21, and P44712-B21 are 96% efficient, thus meeting requirements.

Standard Features

- HPE is on target to fulfil compliant systems ahead of time and will begin enforcing these requirements in advance to satisfy requests with the current power supplies by the set deadline.
- Please visit: <https://www.hpe.com/us/en/about/environment/msds-specs-more.html> for more information regarding HPE Lot 9 conformance.

- UEFI (Unified Extensible Firmware Interface Forum) 2.7
-

Embedded Management

HPE Integrated Lights-Out (HPE iLO)

Monitor your servers for ongoing management, service alerting, reporting and remote management with HPE iLO.

Learn more at <http://www.hpe.com/info/iLO>.

UEFI

Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI).

Intelligent Provisioning

Hassle free server and OS provisioning for 1 or more servers with Intelligent Provisioning.

Learn more at https://support.hpe.com/hpesc/public/docDisplay?docId=c04465280&docLocale=en_US

iLO RESTful API

iLO RESTful API is DMTF Redfish API implementation and offers simplified server management automation such as configuration and maintenance tasks based on modern industry standards. Learn more at <http://www.hpe.com/info/restfulapi>.

OpenBMC Support

OpenBMC Capable through iLO6 Transfer of Ownership Process.

Learn more at [OpenBMC Support](#)

Active Health System

The HPE Active Health System (AHS) is an essential component of the iLO management portfolio that provides continuous, proactive health monitoring of HPE servers. Learn more at

<http://www.hpe.com/servers/ahs>.

Smart Update

Keep your servers up to date with the HPE Smart Update solution by using Smart Update Manager (SUM) to optimize the firmware and driver updates of the Service Pack for ProLiant (SPP).

iLO Amplifier Pack

Designed for large enterprise and service provider environments with hundreds of HPE servers, the iLO Amplifier Pack is a free, downloadable open virtual application (OVA) that delivers the power to discover, inventory and update Gen8, Gen9 and Gen10 HPE servers. Use with an iLO Advanced License to unlock full capabilities.

Learn more at <http://www.hpe.com/servers/iLOamplifierpack>.

RESTful Interface Tool

RESTful Interface tool (iLOREST) is a single scripting tool to provision using iLO RESTful API to discover and deploy servers at scale. Learn more at <http://www.hpe.com/info/resttool>.

Scripting Tools

Provision one to many servers using your own scripts to discover and deploy with Scripting Tool (STK) for

Standard Features

Windows and Linux or Scripting Tools for Windows PowerShell. Learn more at <http://www.hpe.com/servers/powershell>.

HPE OneView Standard

HPE OneView is an on premise, multi-generational server monitoring and management solution. HPE OneView Standard can be used for inventory, health monitoring, alerting, and reporting without additional fees. Customers can upgrade their management experience with an HPE OneView Advanced license all provided by the same tool. Learn more at <http://www.hpe.com/info/oneview>.

HPE GreenLake for Compute Ops Management

HPE is intelligently transforming compute management with an intuitive cloud operating experience through HPE GreenLake cloud platform to streamline and secure operations from edge-to-cloud. Automated key lifecycle tasks, for onboarding, updating, managing, and monitoring HPE servers, brings agility and greater efficiencies to wherever compute devices reside via a unified single browser-based interface. Manage single locations or multiple, distributed sites. Keep tens to thousands of servers secure with batch policy controls and automated updates.

Compute Ops Management is cloud-native software that is continually updated with new services, features, patches, and fixes. The management application resides in the HPE GreenLake cloud platform (access via <https://console.greenlake.hpe.com>) and leverages the HPE GreenLake architecture, security, and unified operations.

A 3-year subscription to HPE GreenLake for Compute Ops Management is added by default when ordering an HPE ProLiant Gen11 rack, tower, or micro server.

For more information, visit the HPE GreenLake for Compute Ops Management QuickSpecs:

<https://www.hpe.com/psnow/doc/a50004263enw>

Security

- UEFI Secure Boot and Secure Start support
- Tamper-free updates - components digitally signed and verified
- Immutable Silicon Root of Trust
- Ability to rollback firmware
- FIPS 140-2 validation
- Secure erase of NAND/User data
- Common Criteria certification
- TPM (Trusted Platform Module) 1.2 option
- Configurable for PCI DSS compliance
- TPM (Trusted Platform Module) 2.0 option

Notes: Enabling TPM 2.0 no longer requires TPM module option kit for Gen11. It is an embedded feature.

- Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser
- Bezel Locking Kit option
- Support for Commercial National Security Algorithms (CNSA)
- Chassis Intrusion detection option
- Secure Recovery - recover critical firmware to known good state on detection of compromised firmware

Warranty

This product is covered by a global limited warranty and supported by HPE Services and a worldwide network of Hewlett Packard Enterprise Authorized Channel Partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE

Standard Features

Services operational services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

Notes: Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at:

<https://www.hpe.com/us/en/search-results.html?page=1&q=servers%20warranty&autocomplete=0>.

Optional Features

Server Management

HPE iLO Advanced

HPE iLO Advanced licenses offer smart remote functionality without compromise, for all HPE ProLiant servers. The license includes the full integrated remote console, virtual keyboard, video, and mouse (KVM), multi-user collaboration, console record and replay, and GUI-based and scripted virtual media and virtual folders. You can also activate the enhanced security and power management functionality.

HPE OneView Advanced

HPE OneView Advanced offers a sophisticated level of automation to infrastructure management by taking a template driven approach to provisioning, updating, and integrating compute, storage, and networking infrastructure. It builds upon the base features of HPE OpenView Standard, provides full-featured licenses which can be purchased for managing multiple HPE server generations.

To learn more visit <http://www.hpe.com/info/oneview>.

HPE InfoSight for Servers

HPE InfoSight for Servers combines the cloud-based machine learning of InfoSight with the health and performance monitoring of Active Health System (AHS) and iLO to optimize performance and predict and prevent problems. The end result is an intelligent environment that modernizes IT operations and enhances the support experience by predicting and preventing the infrastructure issues that lead to application disruptions, wasted IT staff time and missed business opportunities.

Learn more at <https://www.hpe.com/servers/infosight>

HPE Insight Cluster Management Utility (CMU)

HPE Insight Cluster Management Utility is a HyperScale management framework that includes software for the centralized provisioning, management and monitoring of nodes and infrastructure. Learn more at <http://www.hpe.com/info/cmu>.

One Config Simple (OCS/SCE)

OCS/SCE is a guided self-service tool to help sales and non-technical people provide customers with initial configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require "custom" rack configuration or configuration for products not available in SCE, please contact Hewlett Packard Enterprise Customer Business Center or an Authorized Partner for assistance. <https://h22174.www2.hpe.com/SimplifiedConfig/Welcome#>

Rack and Power Infrastructure

The story may end with servers, but it starts with the foundation that makes compute go - and business grow. We've reinvented our entire portfolio of rack and power products to make IT infrastructure more secure, more practical, and more efficient. In other words, we've created a stronger, smarter, and simpler infrastructure to help you get the most out of your IT equipment. As an industry leader, Hewlett Packard Enterprise is uniquely positioned to address the key concerns of power, cooling, cable management and system access.

HPE G2 Advanced and Enterprise Racks are perfect for the server room or today's modern data center with enhanced airflow and thermal management, flexible cable management, and a 10 year Warranty to support higher density computing.

HPE G2 PDUs offer reliable power in flexible form factors that operate at temperatures up to 60°C, include color-coded outlets and load segments and a low-profile design for optimal access to the rack and support for dense rack environments.

HPE Uninterruptible Power Systems are cost-effective power protection for any type workload. Some UPSs include options for remote management and extended runtime modules so you're critical dense data center

Optional Features

is covered in power outages.

HPE KVM Solutions include a console and switches designed to work with your server and IT equipment reliably. We've got a cost-effective KVM switch for your first rack and multiple connection IP switches with remote management and security capabilities to keep your data center rack up and running.

Learn more about HPE Racks, KVM, PDUs and UPSs at [**HPE Rack and Power Infrastructure**](#).

Service and Support

HPE Services

No matter where you are in your digital transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

<https://www.hpe.com/services>

Consulting Services

No matter where you are in your journey to hybrid cloud, experts can help you map out your next steps. From determining what workloads should live where, to handling governance and compliance, to managing costs, our experts can help you optimize your operations.

<https://www.hpe.com/services/consulting>

HPE Managed Services

HPE runs your IT operations, providing services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.

[HPE Managed Services | HPE](#)

Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources. Meet service-level targets and business objectives with features designed to drive better business outcomes.

<https://www.hpe.com/services/operational>

HPE Complete Care Service

HPE Complete Care Service is a modular, edge-to-cloud IT environment service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals through a personalized experience. All delivered by an assigned team of HPE Services experts. HPE Complete Care Service provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

<https://www.hpe.com/services/completecure>

HPE Tech Care Service

HPE Tech Care Service is the operational support service experience for HPE products. The service goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Tech Care Service delivers a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Tech Care Service is available in three response levels. Basic, which provides 9x5 business hour availability and a 2-hour response time. Essential which provides a 15-minute response time 24x7 for most enterprise level customers, and Critical which includes a 6-hour repair commitment where available and outage management response for severity 1 incidents.

<https://www.hpe.com/services/techcare>

Service and Support

HPE Lifecycle Services

HPE Lifecycle Services provide a variety of options to help maintain your HPE systems and solutions at all stages of the product lifecycle. A few popular examples include:

- Lifecycle Install and Startup Services: Various levels for physical installation and power on, remote access setup, installation and startup, and enhanced installation services with the operating system.
- HPE Firmware Update Analysis Service: Recommendations for firmware revision levels for selected HPE products, taking into account the relevant revision dependencies within your IT environment.
- HPE Firmware Update Implementation Service: Implementation of firmware updates for selected HPE server, storage, and solution products, taking into account the relevant revision dependencies within your IT environment.
- Implementation assistance services: Highly trained technical service specialists to assist you with a variety of activities, ranging from design, implementation, and platform deployment to consolidation, migration, project management, and onsite technical forums.
- HPE Service Credits: Access to prepaid services for flexibility to choose from a variety of specialized service activities, including assessments, performance maintenance reviews, firmware management, professional services, and operational best practices.

Notes: To review the list of Lifecycle Services available for your product go to:

<https://www.hpe.com/services/lifecycle>

For a list of the most frequently purchased services using service credits, see the [HPE Service Credits Menu](#)

Other Related Services from HPE Services:

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Broad catalogue of course offerings to expand skills and proficiencies in topics ranging from cloud and cybersecurity to AI and DevOps. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.

<https://www.hpe.com/services/training>

Defective Media Retention

An option available with HPE Complete Care Service and HPE Tech Care Service and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and services options.

Parts and Materials

HPE will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

How to Purchase Services

Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
- Customers purchasing from a commercial reseller can find services at

<https://ssc.hpe.com/portal/site/ssc/>

Service and Support

AI Powered and Digitally Enabled Support Experience

Achieve faster time to resolution with access to product-specific resources and expertise through a digital and data driven customer experience.

Sign into the HPE Support Center experience, featuring streamlined self-serve case creation and management capabilities with inline knowledge recommendations. You will also find personalized task alerts and powerful troubleshooting support through an intelligent virtual agent with seamless transition when needed to a live support agent.

<https://support.hpe.com/hpesc/public/home/signin>

Consume IT On Your Terms

HPE GreenLake edge-to-cloud platform brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake edge-to-cloud platform accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

To learn more about HPE Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Contact information for a representative in your area can be found at "Contact HPE" <https://www.hpe.com/us/en/contact-hpe.html>

For more information

www.hpe.com/services

Pre-Configured Models

Worldwide & Japan BTO Models			
SKU Number	P52560-B21 P52560-291 P52560-421	P52562-B21 P52562-291 P52562-421	P58417-B21 P58417-291
Model Name	HPE ProLiant DL380 Gen11 4410Y 2.0GHz 12-core 1P 32GB-R MR408i-o NC 8SFF 800W PS Server	HPE ProLiant DL380 Gen11 4410Y 2.0GHz 12-core 1P 32GB-R NC 12LFF 800W PS Server	HPE ProLiant DL380 Gen11 6430 2.1GHz 32-core 1P 32GB-R NC 8SFF 1000W PS Server
Chassis	8SFF NC CTO Server (P52534-B21)	12LFF NC CTO Server (P52533-B21)	8SFF NC CTO Server (P52534-B21)
Processor	4410Y (12 core, 2.0GHz, 150W)	4410Y (12 core, 2.0GHz, 150W)	6430 (32-core, 2.1GHz, 270W)
Number of Processors	One with standard heatsink	One with standard heatsink	One with high performance heatsink
Memory	32 GB RDIMM 2R 4800 MT/s (1x 32 GB)	32 GB RDIMM 2R 4800 MT/s (1x 32 GB)	64 GB RDIMM 2R 4800 MT/s (2x 32 GB)
Network Controller	Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE
Storage Controller	HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller and Smart Storage Battery	Embedded SW RAID with 14 SATA ports (12-ports accessible), and optional choice of HPE modular MegaRAID controller.	Embedded SW RAID with 14 SATA ports (12-ports accessible), and optional choice of HPE modular MegaRAID controller.
Hard Drive	None Included	None Included	None Included
Internal Storage	8 SFF CTO Server (upgradeable to 24 SFF front + 2SFF rear)	12 LFF CTO Server	8 SFF CTO Server (upgradeable to 24 SFF front + 2SFF rear)
PCIe Slots	3-slots (x8, x16, x8) as standard; upgradeable to 8-slots in a 2 processor configuration		
Power Supply	1x HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (-B21 & -291)	1x HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (-B21 & -291)	1x HPE 1000W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit
	1x HPE 1000W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit (-421)	1x HPE 1000W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit (-421)	
Fans	4 - Standard	4 - Standard	6 - High Performance
Management	HPE iLO 6	HPE iLO 6	HPE iLO 6
Rail Kit	SFF Easy Install Rail Kit; cable management arm	SFF Easy Install Rail Kit; cable management arm	SFF Easy Install Rail Kit; cable management arm
Energy Star	Energy Star 3.0	Energy Star 3.0	Energy Star 3.0
Form Factor	2U Rack	2U Rack	2U Rack
Warranty	3-year parts, 3-year labor, 3-year onsite support with next business day response.		

Worldwide & Japan BTO Models

Pre-Configured Models

SKU Number	P52561-B21 P52561-291 P52561-421	P52564-B21 P52564-291 P52564-421	P60636-B21 P60636-291 P60636-421
Model Name	HPE ProLiant DL380 Gen11 5416S 2.0GHz 16-core 1P 32GB-R MR408i-o NC 8SFF 800W PS Server (-B21 & - 291) HPE ProLiant DL380 Gen11 5416S 2.0GHz 16-core 1P 32GB-R MR408i-o NC 8SFF 1000W PS Server (-421)	HPE ProLiant DL380 Gen11 5415+ 2.9GHz 8-core 1P 32GB-R MR408i-o NC 8SFF 800W PS Server (-B21 & - 291) HPE ProLiant DL380 Gen11 5415+ 2.9GHz 8-core 1P 32GB-R MR408i-o NC 8SFF 1000W PS Server (-421)	HPE ProLiant DL380 Gen11 4416+ 2.0GHz 20-core 1P 32GB-R MR408i-o NC 8SFF 800W PS Server (-B21 & -421) HPE ProLiant DL380 Gen11 4416+ 2.0GHz 20-core 1P 32GB-R MR408i-o NC 8SFF 1000W PS Server (-421)
Chassis	8SFF NC CTO Server (P52534-B21)	8SFF NC CTO Server (P52534-B21)	8SFF NC CTO Server (P52534-B21)
Processor	5416S (16 core, 2.0GHz, 150W)	5415+ (8 core, 2.9GHz, 150W)	4416+ (20-core, 2.0GHz, 165W)
Number of Processors	One with standard heatsink	One with standard heatsink	One with high performance heatsink
Memory	32 GB RDIMM 2R 4800 MT/s (1x 32 GB)	32 GB RDIMM 2R 4800 MT/s (1x 32 GB)	32 GB RDIMM 2R 4800 MT/s (1x 32 GB)
Network Controller	Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T Adapter for HPE	Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T Adapter for HPE	Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T Adapter for HPE
Storage Controller	HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller and Smart Storage Battery	HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller and Smart Storage Battery	HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller and Smart Storage Battery
Hard Drive	None Included	None Included	None Included
Internal Storage	8 SFF CTO Server (upgradeable to 24 SFF front + 2SFF rear)	8 SFF CTO Server (upgradeable to 24 SFF front + 2SFF rear)	8 SFF CTO Server (upgradeable to 24 SFF front + 2SFF rear)
PCIe Slots	3-slots (x8, x16, x8) as standard; upgradeable to 8-slots in a 2 processor configuration		
Power Supply	1x HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (-B21 & -291)	1x HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (-B21 & -291)	1x HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (-B21 & -291)
	1x HPE 1000W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit (-421)	1x HPE 1000W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit (-421)	1x HPE 1000W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit (-421)
Fans	4 - Standard	4 - Standard	4 - Standard
Management	HPE iLO 6	HPE iLO 6	HPE iLO 6
Rail Kit	SFF Easy Install Rail Kit; cable management arm	SFF Easy Install Rail Kit; cable management arm	SFF Easy Install Rail Kit; cable management arm
Energy Star	Energy Star 3.0	Energy Star 3.0	Energy Star 3.0
Form Factor	2U Rack	2U Rack	2U Rack
Warranty	3-year parts, 3-year labor, 3-year onsite support with next business day response.		

Pre-Configured Models

Worldwide & Japan BTO Models		
SKU Number	P60637-B21 P60637-291 P60637-421	P60638-B21 P60638-291 P60638-421
Model Name	HPE ProLiant DL380 Gen11 6426Y 2.5GHz 16-core 1P 32GB-R MR408i-o NC 8SFF 800W PS Server (-B21 & - 291) HPE ProLiant DL380 Gen11 6426Y 2.5GHz 16-core 1P 32GB-R MR408i-o NC 8SFF 1000W PS Server (-421)	HPE ProLiant DL380 Gen11 5418Y 2.0GHz 24-core 1P 64GB-R MR408i-o NC 8SFF 800W PS Server (-B21 & -291) HPE ProLiant DL380 Gen11 5418Y 2.0GHz 24-core 1P 64GB-R MR408i-o NC 8SFF 1000W PS Server (-421)
Chassis	8SFF NC CTO Server (P52534-B21)	8SFF NC CTO Server (P52534-B21)
Processor	6426Y (16 core, 2.0GHz, 185W)	5418Y (24 core, 2.0GHz, 185W)
Number of Processors	One with high-performance heatsink	One with high-performance heatsink
Memory	32 GB RDIMM 2R 4800 MT/s (1x 32 GB)	64 GB RDIMM 2R 4800 MT/s (2x 32 GB)
Network Controller	Broadcom BCM57416 Ethernet 10Gb 2- port BASE-T Adapter for HPE	Broadcom BCM57416 Ethernet 10Gb 2- port BASE-T Adapter for HPE
Storage Controller	HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller and Smart Storage Battery	HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller and Smart Storage Battery
Hard Drive	None Included	None Included
Internal Storage	8 SFF CTO Server (upgradeable to 24 SFF front + 2SFF rear)	8 SFF CTO Server (upgradeable to 24 SFF front + 2SFF rear)
PCIe Slots	3-slots (x8, x16, x8) as standard; upgradeable to 8-slots in a 2 processor configuration	
Power Supply	1x HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (- B21 & -291)	1x HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (- B21 & -291)
	1x HPE 1000W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit (- 421)	1x HPE 1000W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit (- 421)
Fans	4 - Standard	4 - Standard
Management	HPE iLO 6	HPE iLO 6
Rail Kit	SFF Easy Install Rail Kit; cable management arm	SFF Easy Install Rail Kit; cable management arm
Energy Star	Energy Star 3.0	Energy Star 3.0
Form Factor	2U Rack	2U Rack
Warranty	3-year parts, 3-year labor, 3-year onsite support with next business day response.	

Pre-Configured Models

China BTO Models	
SKU Number	P60740-AA1
Model Name	HPE ProLiant DL380 Gen11 4416+ 2.0GHz 20-core 1P 32GB-R MR408i-o NC 8SFF 800W PS Server
Chassis	8SFF NC CTO Server (P52534-B21)
Processor	4416+ (20 core, 2.1GHz, 150W)
Number of Processors	One with standard heatsink
Memory	32 GB RDIMM 2R 4800 MT/s (1x 32 GB)
Network Controller	Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE
Storage Controller	HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller and Smart Storage Battery
Hard Drive	None Included
Internal Storage	8 SFF CTO Server (upgradeable to 24 SFF front + 2SFF rear)
PCIe Slots	
Power Supply	1x HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (-B21 & -291)
	1x HPE 1000W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit (-421)
Fans	4 - Standard
Management	HPE iLO 6
Rail Kit	SFF Easy Install Rail Kit; cable management arm
Energy Star	Energy Star 3.0
Form Factor	2U Rack
Warranty	3-year parts, 3-year labor, 3-year onsite support with next business day response.

Configuration Information

Smart Templates from HPE

HPE is releasing new Smart Template technology in the One Config Advanced (OCA) configurator. These Templates represent the CTO equivalents of the top-selling BTO configurations. They are intended to provide simple starting points to assist you in easily creating and customizing your desired Server solutions. HPE Servers that have Platform Templates, developed by HPE Product Managers, will have a separate tab in the HPE OCA configurator.

Workload Solutions Templates from HPE

The Workload Solutions Templates build on the Smart Templates technology to easily develop working configurations of the most compelling Workload Solutions. The templates complement the Reference Builds developed by HPE. Workload Solutions templates preconfigure some of the key architecture decisions and make it easier for Sellers to get started and complete a differentiated server solution for your customer's specific workload.

Mainstream SKUs

HPE launched the Mainstream SKU initiative as a market-driven approach to Demand Steering. It is a simplified portfolio of our top selling options that meet the current and future market trends. HPE has committed to provide a more predictable and faster experience for these options. Mainstream SKUs enjoy higher safety stock levels and have higher fulfillment service levels than non-Mainstream SKUs. Mainstream orders are fulfilled +30% faster than non-Mainstream orders, have fewer shortages and better recovery dates. This platform has Mainstream SKUs in the options portfolio, and is eligible for the improved Mainstream experience. Mainstream SKUs are designated with a Mainstream symbol in our configurators.

Mainstream Configurations

HPE is using the new Smart Templates technology to present Mainstream configurations. All the options in a Mainstream configuration are pre-selected Mainstream SKUs to optimize the performance, predictability and fulfillment experience. Check the Template section in our configurators for eligible Mainstream configurations.

This section lists some of the steps required to configure a Factory Integrated Model. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an HPE approved configurator. Contact your local sales representative for information on configurable product offerings and requirements.

- Factory Integrated Models must start with a CTO Server.
- FIO indicates that this option is only available as a factory installable option.
- All Factory Integrated Models will be populated with sufficient hard drive blanks based on the number of initial hard drives ordered with the server.
- Some options may not be integrated at the factory. Contact your local sales representative for additional information.

Step 1: Base Configuration (choose one (1) of the following four (4) configurable server models from the tables below)

The below (4) CTO server models, denoted with "NC" in the SKU description, provide flexibility in the networking choice and require a network adapter from the "HPE Networking" section be selected.

Configuration Information

Networking Choice CTO Server Models	HPE ProLiant DL380 Gen11 8LFF NC CTO Server	HPE ProLiant DL380 Gen11 12LFF NC CTO Server	HPE ProLiant DL380 Gen11 8SFF NC CTO Server	HPE ProLiant DL380 Gen11 24SFF NC CTO Server
SKU Number	P52532-B21	P52533-B21	P52534-B21	P52535-B21
TAA SKU*	P52532-B21#GTA	P52533-B21#GTA	P52534-B21#GTA	P52535-B21#GTA
HPE Trusted Supply Chain	P36394-B21 - Optional			
Processor	Not included as standard	Not included as standard	Not included as standard	Not included as standard
DIMM Slots	32-DIMM slots	32-DIMM slots	32-DIMM slots	32-DIMM slots
Storage Controller	Embedded SW RAID with 14 SATA ports (12-ports accessible), optional choice of HPE modular MegaRAID controller.			
PCIe	Three standard in primary riser			
Drive Cage - available	8 LFF	12 LFF	8 SFF (8SFF U.3 x1)	24 SFF (3x 8SFF U.3 x1)
Network Controller	Choice of either OCP 3.0 or select stand-up network adapters for primary networking selection plus additional/optional stand-up network adapters. Notes: No embedded networking			
Fans	4-Standard	4-Standard	4-Standard	6-High Performance
Management	HPE iLO with Intelligent Provisioning (standard), iLO Advanced and OneView (optional)			
USB	4x 3.0 standard plus iLO front service port	4x 3.0 standard plus iLO front service port	4x 3.0 standard plus iLO front service port	4x 3.0 standard plus iLO front service port
Networking Choice CTO Server Models	HPE ProLiant DL380 Gen11 12EDSFF NC Configure-to-order Server			
SKU Number	P52536-B21			
TAA SKU*	P52536-B21#GTA			
HPE Trusted Supply Chain	P36394-B21 - Optional			
Processor	Not included as standard			
DIMM Slots	32-DIMM slots			
Storage Controller	Embedded SW RAID with 14 SATA ports (12-ports accessible), and optional choice of HPE modular MegaRAID controller.			
PCIe	Three standard in primary riser			
Drive Cage - available	12 EDSFF			
Network Controller	Choice of either OCP 3.0 or select stand-up network adapters for primary networking selection plus additional/optional stand-up network adapters Notes: No embedded networking			
Fans	6 -Standard			
Management	HPE iLO with Intelligent Provisioning (standard), iLO Advanced and OneView (optional)			
USB	4x 3.0 standard plus iLO front service port			

Notes:

Configuration Information

- Network Choice (NC) server models require a networking selection of a network adapters in the "HPE Networking" section.
- HPE Trusted Supply Chain (P36394-B21) is an optional security upgrade intended for agencies and regulated industries needing enhanced security and compliance needs. Applying this option to a DL380 Gen11 CTO server ensures it is built in the USA in a secured facility by vetted HPE personnel assigned to the manufacturing processes. A multitude of checkpoints/inspections for malicious microcode and counterfeit parts are performed throughout the server build, and additional safeguards are put in place against cyber-exploits throughout the server lifecycle. The HPE ProLiant DL380 Gen11 is re-branded as a HPE ProLiant DL380T Gen11 to denote the HPE Trusted Supply Chain security enhancements. The DL380T is Trade Agreement Act (TAA) compliant. See "HPE Security" section within this document for more detail and learn more at <http://www.hpe.com/security>
- *HPE offers multiple Trade Agreement Act (TAA) compliant configurations to meet the needs of US Federal Government customers. These products are either manufactured or substantially transformed in a designated country. TAA compliance is only provided when HPE options are included as part of factory integrated orders (CTO).
- All CTO servers are Energy Star 3.0 compliant.

CTO Server	8 SFF CTO Chassis	24 SFF CTO Chassis	8 LFF CTO Chassis	12 LFF CTO Chassis
Available Drive Cage	8SFF U.3 x1 Drive Cage	3x 8SFF U.3 x1 Drive Cage	8 LFF (2x 4LFF Drive Cages)	12 LFF (3x 4LFF Drive Cages)
Universal Media Bay	1 Optional	Not available	Not available	Not available
Optical Disk Drive	1 Optional with UMB	Not available	1 Optional with ODD Enable Kit	Not available
8 SFF NVMe/SAS/SATA Drive Cage (mid-tray)	1 Optional	1 Optional	1 Optional	1 Optional
2 SFF NVMe/SAS/SATA (Front)	1 Optional with UMB	Not available	1 Optional with Side-by-Side Drive Cage	Not available
2 SFF NVMe/SAS/SATA (Rear)	3 Optional	3 Optional	1 Optional	1 Optional
2 LFF SAS/SATA (Rear riser)	Not available	Not available	2 Optional	2 Optional
CTO Server	EDSFF CTO Chassis			
Available Drive Cage	12 EDSFF Drive Cage			
Universal Media Bay	Not supported			
Optical Disk Drive	Not supported			
8 SFF NVMe/SAS/SATA Drive Cage	Up to 1 Optional			
2 SFF NVMe/SAS/SATA (Front)	Not supported			
2 SFF NVMe/SAS/SATA (Rear)	1 Optional			

Configuration Information

2 LFF SAS/SATA (Rear riser)	Not available			
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Notes: This applies to CTO configurations; field upgrades may differ depending on field configuration.

Step 2: Choose Required Options

Please select up to two processors required below.

Notes:

- 8SFF, 8LFF, and 12LFF CTO models ship with 4 standard fans.
- 24 SFF CTO Servers ship with 6 High performance fans included. Maximum Performance fan kit is available to meet ambient temperature environments and are required for rear drives or NVMe configurations.
- Maximum memory capacity per processor is dependent on processor models. All processors support up to 4TB max memory per processor.
- Mixing of 2 different processor models are NOT allowed.
- Processors with TDP greater than 150W require High Performance Heatsink (P48818-B21).
- Q series processors require Max Performance Heat Sink (P48817-B21)
- DDR5 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

Step 2a: Choose Processors

Processor Option Kits (Required Processor)

4th Generation Intel Xeon-Platinum

Notes:

- All SKUs below ship with processor only. Adequate fans and heatsinks must be selected.
- Processors with TDP equal to or greater than 150W require High Performance Heatsink (P48818-B21)
- Q series processors require Max Performance Heat Sink (P48817-B21)
- 8470Q processor is not supported with 12LFF CTO Server and 24SFF CTO Server.

Intel Xeon-Platinum 9462 2.7GHz 32-core 350W Processor for HPE	P49645-B21
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Notes:

- This is Intel High Bandwidth Memory (HBM) CPU.
- Requires High Performance Heat Sink
- Requires High Performance Fan Kit

Intel Xeon-Platinum 8490H 1.9GHz 60-core 350W Processor for HPE	P49630-B21
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Notes:

- Requires High Performance Heat Sink
- Requires High Performance Fan Kit

Intel Xeon-Platinum 8480+ 2.0GHz 56-core 350W Processor for HPE	P49607-B21
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Notes:

- Requires High Performance Heat Sink
- Requires High Performance Fan Kit

Intel Xeon-Platinum 8470Q 2.1GHz 52-core 350W Processor for HPE	P49609-B21
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Notes:

- Requires Max Performance Heat Sink
- Requires High Performance Fan Kit

Intel Xeon-Platinum 8470 2.0GHz 52-core 350W Processor for HPE	P49606-B21
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Notes:

- Requires High Performance Heat Sink
- Requires High Performance Fan Kit

Configuration Information

Intel Xeon-Platinum 8470N 1.7GHz 52-core 300W Processor for HPE	P49649-B21
Notes:	
– Requires High Performance Heat Sink	
– Requires High Performance Fan Kit	
Intel Xeon-Platinum 8468V 2.4GHz 48-core 330W Processor for HPE	P49631-B21
Notes:	
– Requires High Performance Heat Sink	
– Requires High Performance Fan Kit	
Intel Xeon-Platinum 8468 2.1GHz 48-core 350W Processor for HPE	P49605-B21
Notes:	
– Requires High Performance Heat Sink	
– Requires High Performance Fan Kit	
Intel Xeon-Platinum 8462Y+ 2.8GHz 32-core 300W Processor for HPE	P49603-B21
Notes:	
– Requires High Performance Heat Sink	
– Requires High Performance Fan Kit	
Intel Xeon-Platinum 8458P 2.7GHz 44-core 350W Processor for HPE	P49632-B21
Notes:	
– Requires High Performance Heat Sink	
– Requires High Performance Fan Kit	
Intel Xeon-Platinum 8460Y+ 2.0GHz 40-core 300W Processor for HPE	P49604-B21
Notes:	
– Requires High Performance Heat Sink	
– Requires High Performance Fan Kit	
Intel Xeon-Platinum 8452Y 2.0GHz 36-core 300W Processor for HPE	P49616-B21
Notes:	
– Requires High Performance Heat Sink	
– Requires High Performance Fan Kit	
Intel Xeon-Platinum 8444H 2.9GHz 16-core 270W Processor for HPE	P49625-B21
Notes:	
– Requires High Performance Heat Sink	
– Requires High Performance Fan Kit	
4th Generation Intel Xeon-Gold	
Intel Xeon-Gold 6458Q 3.1GHz 32-core 350W Processor for HPE	P49608-B21
Notes:	
– Requires High Performance Heat Sink	
– Requires High Performance Fan Kit	
Intel Xeon-Gold 6448H 2.4GHz 32-core 250W Processor for HPE	P49622-B21
Notes:	
– Requires High Performance Heat Sink	
– Requires High Performance Fan Kit	
Intel Xeon-Gold 6448Y 2.1GHz 32-core 225W Processor for HPE	P49600-B21
Notes:	
– Requires High Performance Heat Sink	
– Requires High Performance Fan Kit	

Configuration Information

Intel Xeon-Gold 6444Y 3.6GHz 16-core 270W Processor for HPE	P49602-B21
Notes:	
– Requires High Performance Heat Sink	
– Requires High Performance Fan Kit	
Intel Xeon-Gold 6442Y 2.6GHz 24-core 225W Processor for HPE	P49599-B21
Notes:	
– Requires High Performance Heat Sink	
– Requires High Performance Fan Kit	
Intel Xeon-Gold 6438N 2.0GHz 32-core 205W Processor for HPE	P49638-B21
Notes:	
– Requires High Performance Heat Sink	
– Requires High Performance Fan Kit	
Intel Xeon-Gold 6438Y+ 2.0GHz 32-core 205W Processor for HPE	P49615-B21
Notes:	
– Requires High Performance Heat Sink	
– Requires High Performance Fan Kit	
Intel Xeon-Gold 6434 3.7GHz 8-core 195W Processor for HPE	P49601-B21
Notes: Requires High Performance Heat Sink	
Intel Xeon-Gold 6430 2.1GHz 32-core 270W Processor for HPE	P49614-B21
Notes:	
– Requires High Performance Heat Sink	
– Requires High Performance Fan Kit	
Intel Xeon-Gold 6426Y 2.5GHz 16-core 185W Processor for HPE	P49598-B21
Notes: Requires High Performance Heat Sink	
Intel Xeon-Gold 6454S 2.2GHz 32-core 270W Processor for HPE	P49654-B21
Notes:	
– Requires High Performance Heat Sink	
– Requires High Performance Fan Kit	
Intel Xeon-Gold 6421N 1.8GHz 32-core 185W Processor for HPE	P49641-B21
Notes: Requires High Performance Heat Sink	
Intel Xeon-Gold 6418H 2.1GHz 24-core 185W Processor for HPE	P49621-B21
Notes: Requires High Performance Heat Sink	
Intel Xeon-Gold 6416H 2.2GHz 18-core 165W Processor for HPE	P49620-B21
Notes: Requires High Performance Heat Sink	
Intel Xeon-Gold 6414U 2.0GHz 32-core 250W Processor for HPE	P49619-B21
Notes:	
– This is a single socket CPU, max allowed = 1	
– Requires High Performance Heat Sink	
– Requires High Performance Fan Kit	
Intel Xeon-Gold 5415+ 2.9GHz 8-core 150W Processor for HPE	P49597-B21
Notes: Requires High Performance Heat Sink	
Intel Xeon-Gold 5416S 2.0GHz 16-core 150W Processor for HPE	P49653-B21
Notes: Requires High Performance Heat Sink	
Intel Xeon-Gold 5418N 1.8GHz 24-core 165W Processor for HPE	P49640-B21

Configuration Information

Notes: Requires High Performance Heat Sink

Intel Xeon-Gold 5418Y 2.0GHz 24-core 185W Processor for HPE P49612-B21

Notes: Requires High Performance Heat Sink

Intel Xeon-Gold 5420+ 2.0GHz 28-core 205W Processor for HPE P49613-B21

Notes:

– Requires High Performance Heat Sink

– Requires High Performance Fan Kit

Intel Xeon-Gold 5415+ 2.9GHz 8-core 150W Processor for HPE P49597-B21

Notes:

– Requires Standard Heat Sink

– 4th Generation Intel Xeon-Silver

Intel Xeon-Gold 5411N 1.9GHz 24-core 165W Processor for HPE P49639-B21

Notes: Requires High Performance Heat Sink

Intel Xeon-Silver 4410Y 2.0GHz 12-core 150W Processor for HPE P49610-B21

Notes: Requires Standard Heatsink

Intel Xeon-Silver 4416+ 2.0GHz 20-core 165W Processor for HPE P49611-B21

Notes:

– Requires Standard Heatsink

– 4th Generation Intel Xeon-Bronze

Intel Xeon-Bronze 3408U 1.8GHz 8-core 125W Processor for HPE P49617-B21

Notes: Requires Standard Heatsink

Step 2b: Choose Memory Options

Please select one or more memory from below.

For new Gen11 memory population rule whitepaper and optimal memory performance guidelines, please go to:

HPE Memory Population Rules

For details on the HPE Server Memory Options Population Rules, please go to:

Memory population rules for HPE Gen11 servers with 4th Generation Intel Scalable Processors

Notes:

- HPE Server Memory compatibility for a specific server platform may vary or be limited within a server platform depending upon the specific configuration being requested. Because each server environment and requirements can vary, memory compatibility is based not only upon the server family, but may also be affected by the amount and type of additional hardware options installed within a specific server configuration. For this reason, some HPE memory DIMMs may be qualified for an HPE server model or family and yet occasionally not be supported with some configurations within that server family
- Memory should be installed in even quantity of DIMMs
- The maximum memory speed and capacity is a function of the memory type, memory configuration, and processor model.
- DDR5-4800 Memory Kits are only supported with 4th Generation Intel Xeon Scalable Series Processors.
- Memory compatibility may vary or be limited within a specific server family depending upon the specific configuration being requested. Because each server environment and requirements can vary, memory compatibility is based not only upon the server family, but may also be affected by the amount and type of additional hardware options installed within a specific server configuration. For this reason, some HPE memory DIMMs may be qualified for a server model or family and yet occasionally not be supported with limited configurations within that server family.
- Please consult with the HPE server Quickspecs or your HPE representative if you have any questions regarding memory compatibility with a specific HPE server configuration.

Configuration Information

Registered DIMMs DDR5 (RDIMMs)

HPE 16GB (1x16GB) Single Rank x8 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P43322-B21
HPE 32GB (1x32GB) Dual Rank x8 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P43328-B21
HPE 64GB (1x64GB) Dual Rank x4 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P43331-B21
HPE 96GB (1x96GB) Dual Rank x4 DDR5-4800 CAS-46-45-45 EC8 Registered Smart Memory Kit	P66675-B21

Notes: 96GB DIMMs only supported on XCC CPUs.

HPE 128GB (1x128GB) Quad Rank x4 DDR5-4800 CAS-46-39-39 EC8 Registered 3DS Smart Memory Kit	P43334-B21
HPE 256GB (1x256GB) Octal Rank x4 DDR5-4800 CAS-46-39-39 EC8 Registered 3DS Smart Memory Kit	P43337-B21

Notes:

- 4800 MT/s memory SKUs offer a transfer rate of 4800 MT/s at 1 DIMM per channel and 4400 MT/s at 2 DIMMs per channel
- Mixing of 3DS memory and non-3DS memory is not supported
- Mixing of x4 and x8 memory is not allowed
- Memory with larger than 128GB capacity will need High Performance Fan Kit (P48820-B21) and ambient limitation. 256GB DIMM will also need to limit the maximum front-end cage to two.
- If 96GB or higher density memory is selected then High Performance Fan Kit must be selected.
- 96GB memory cannot be mixed with any other memory.
- 96GB memory configuration must be either 8 or 16 only on 1 processor unit.
- 96GB memory configuration must be either 16 or 32only on 2 processor unit.

Memory Blank Kit

HPE DDR4 DIMM Blank Kit	P07818-B21
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Notes: DIMM Blanks are optional and not required.

Step 2c: Choose Power Supplies

Select one or two power supplies from below.

Notes: Mixing of 2 different power supplies is NOT allowed.

HPE Flex Slot Power Supplies

HPE 1800W-2200W Flex Slot Titanium Hot Plug Power Supply Kit	P44712-B21
HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	P38997-B21
HPE 1600W Flex Slot -48VDC Hot Plug Power Supply Kit	P17023-B21
HPE 1000W Flex Slot Titanium Hot Plug Power Supply Kit	P03178-B21
HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	P38995-B21

Notes:

- Select a minimum (1), maximum (2) power supplies.
- 1600W Power supplies only support high line voltage (200VAC to 240VAC).

Configuration Information

- Prior to making a power supply selection it is highly recommended that the HPE Power Advisor is run to determine the right size power supply for your server configuration. The HPE Power Advisor is located at:
<http://www.hpe.com/info/hppoweradvisor>.
- All power supplies in a server should match.
- Mixing Power Supplies is not supported.
- HPE ProLiant servers ship with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). Visit [HPE power cords](#) for a full list of optional power cords.
- Beginning on January 1st, 2024, units sold into the European Union (EU), European Economic Area (EEA), the United Kingdom, or Switzerland must include more efficient AC power supplies: 94% for multi-output and 96% for single-output.
- HPE Flexible Slot power supplies are single-output, and part numbers 865438-B21, P03178-B21, and P44712-B21 are 96% efficient, thus meeting requirements. HPE is on target to fulfil compliant systems ahead of time and will begin enforcing these requirements in advance to satisfy requests with the current power supplies by the set deadline.

Step 3: Choose Additional Factory Integrate table Options

One of the following from each list may be selected if desired at time of factory integration

HPE Security Options

HPE iLO Common Password FIO Setting	P08040-B21
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Notes:

- Replaces iLO default randomized password by an HPE defined common password. HPE highly recommends changing this password immediately after the initial onboarding process.
- Customers who want to choose their own custom iLO default password should use the HPE Factory Express Integration Services

HPE Bezel Lock Kit	875519-B21
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Notes: This option can be selected only if HPE Gen11 2U Bezel Kit (P50400-B21) is selected.

HPE ProLiant DL3XX Gen11 Intrusion Cable Kit	P48922-B21
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Notes: This option must be selected if HPE Trusted Supply Chain SKU (P36394-B21) is selected.

HPE Gen11 2U Bezel Kit	P50400-B21
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Factory Instructions and Server Settings

HPE ProLiant DL380 Gen11 36EDSFF FIO Bundle Kit	P56075-B21
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HPE ProLiant DL380 Gen11 20EDSFF FIO Bundle Kit	P56076-B21
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Notes:

- If this NVMe Bundle/ EDSFF Bundle is selected then Qty 1 of High Performance Fan Kit must be selected.
- If NVMe Bundle/ EDSFF Bundle is selected then Second Processor must be selected.
- For 12EDSFF CTO Server, If EDSFF Bundle is selected then Max Quantity of 256GB Memory is limited to 16.
- EDSFF Drive cage supports Direct attach Only and requires selection of EDSFF Bundle.
- If EDSFF Bundle is selected then Qty1 of HPE DL380 Gen11 12EDSFF CPU1/2 Cbl Kit must be selected
- If EDSFF Bundle is selected then Qty2 of HPE DL380/DL560 G11 2U 12EDSFF NVMe Kit must be selected.
- EDSFF Bundle is supported with 12EDSFF CTO Server Only.
- If EDSFF Bundle is selected then OCP1 x16 Enablement Kit AND OCP2 x16 Enablement

Configuration Information

- Kit AND CPU1 OCP2 x8 Enable kit cannot be selected.
- If EDSFF Bundle is selected then Tertiary Riser cannot be selected.
- If EDSFF Bundle is selected then HPE DL380 Gen11 x16/x16/x16 Prim Cbl Kit AND HPE DL380 Gen11 x16/x16/x16 Sec Cbl Kit cannot be selected.
- If 20EDSFF Bundle is selected then Maximum 20 EDSFF Drives only can be selected.

HPE ProLiant DL380 Gen11 32NVMe Balanced FIO Bundle Kit P53639-B21

Notes:

- If NVMe bundle is selected then default stoarge controller cannot be selected.
- If this NVMe Bundle is selected then Qty 1 of HPE DL380 Gen11 8NVMe CPU1/2 Cbl Kit must be selected.
- If this NVMe Bundle/ EDSFF Bundle is selected then Qty 1 of High Performance Fan Kit must be selected.
- If 24NVMe Bundle/ 32NVMe Bundle is selected then Qty 3 (min/max) of 8SFF U.3 x4 cage must be selected.
- If 24NVMe Bundle/ 32NVMe Bundle is selected then Qty 1 of HPE DL380 Gen11 3x16 Pri Rsr must be selected.
- If 24NVMe Bundle/ 32NVMe Bundle is selected then Qty 1 of HPE DL380 Gen11 3x16 SEC Rsr must be selected.
- If 24NVMe Bundle/ 32NVMe Bundle is selected then Qty 1 of OCP1 x16 Enablement Kit must be selected.
- If 24NVMe Bundle/ 32NVMe Bundle is selected then Qty 1 of OCP2 x16 Enablement Kit must be selected.
- If 24NVMe Bundle/ 32NVMe Bundle is selected then Qty 1 of HPE Gen4 Re-timer/-p Cable Kit must be selected.
- NVMe Bundle is supported with 8SFF CTO Server Only.
- If NVMe Bundle/ EDSFF Bundle is selected then Second Processor must be selected.
- If 24NVMe/ 32NVMe Bundle is selected then Tertiary Riser cannot be selected.
- For 8SFF CTO Server, 8SFF U.3 x4 Mid Tray requires selection of 32NVMe Bundle or SR932i controller.
- If 32NVMe Bundle is selected then Qty 1 (min/max) of HPE DL380 G11 2U 8SFF x4 U.3 Mid TM Kit must be selected.
- If 32NVMe Bundle is selected then Qty 4 of HPE DL385 Gen10+ 12Gb NVMe 2p Adptr must be selected.

HPE ProLiant DL380 Gen11 8NVMe Balanced FIO Bundle Kit P53633-B21

Notes:

- If this NVMe Bundle is selected then Qty 1 of HPE DL380 Gen11 8NVMe CPU1/2 Cable Kit (P48825-B21) must be selected and defaulted.
- If this NVMe Bundle is selected then Qty 1 of High Performance Fan Kit (P48820-B21) must be selected and defaulted.
- If 8NVMe Bundle is selected then Qty 1 (min) of 8SFF U.3 x4 drive must be selected.
- If NVMe Bundle is selected then 8SFF U.3 x4 Cage is defaulted.
- NVMe Bundle is supported with 8SFF CTO Server Only.
- If NVMe Bundle is selected then Second Processor must be selected.
- If 8SFF U.3 x1 Cage is selected along with 8 OR 16 NVMe bundle then controller must be selected.

HPE ProLiant DL380 Gen11 16NVMe Balanced FIO Bundle Kit P53634-B21

Notes:

- If NVMe bundle is selected then defaulted Controller has to be deselected.
- If this NVMe Bundle is selected then Qty 1 of HPE DL380 Gen11 8NVMe CPU1/2 Cable Kit

Configuration Information

- (P48825-B21) must be selected and defaulted.
- If this NVMe Bundle is selected then Qty 1 of High Performance Fan Kit (P48820-B21) must be selected and defaulted.
- If 16NVMe Bundle is selected then Qty 2 (min) of 8SFF U.3 x4 drive cage must be selected.
- If NVMe Bundle is selected then 8SFF U.3 x4 drive cage will be defaulted.
- NVMe Bundle is supported with 8SFF CTO Server Only.
- If 16NVMe/ 24NVMe Bundle is selected then Universal Media Bay kit cannot be selected.
- If NVMe Bundle is selected then Second Processor must be selected.
- If Tertiary Riser is selected along with 16NVMe Bundle then 2x16 Tertiary FIO x8 Enable Kit (P53632-B21) must be selected
- If 8SFF U.3 x1 drive cage (P48813-B21) is selected along with 8 OR 16 NVMe bundle then controller must be selected.

HPE ProLiant DL380 Gen11 24NVME Balanced I/O FIO Bundle Kit

P53635-B21

Notes:

- If NVMe bundle is selected then defaulted Controller has to be deselected.
- If NVMe Bundle is selected then 8SFF U.3 x1 drive cage (P48813-B21) cannot be selected.
- If this NVMe Bundle is selected then Qty 1 of HPE DL380 Gen11 8NVMe CPU1/2 Cable Kit (P48825-B21) must be selected and defaulted.
- If this NVMe Bundle is selected then Qty 1 of High Performance Fan Kit (P48820-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 3 (min) of 8SFF U.3 x4 drives must be selected.
- If 24NVMe Bundle is selected then Qty 1 of HPE DL380 Gen11 3x16 Primary Riser (P48803-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 1 of HPE DL380 Gen11 3x16 Secondary Riser (P51083-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 1 of OCP1 x16 Enablement Kit (P48827-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 1 of OCP2 x16 Enablement Kit (P48828-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 2 of HPE DL385 Gen10+ 12Gb NVMe 2p Adapter (P25527-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 1 of HPE Gen4 Re-timer/-p Cable Kit must be selected and defaulted.
- If NVMe Bundle is selected then 8SFF U.3 x4 drive cage will be defaulted.
- NVMe Bundle is supported with 8SFF CTO Server Only.
- If 16NVMe/ 24NVMe Bundle is selected then Universal Media Bay kit cannot be selected.
- If NVMe Bundle is selected then Second Processor must be selected.
- If 24NVMe Bundle is selected then Tertiary Riser cannot be selected.
- If 24NVMe Balanced or 24NVMe DIFF IO-3 Bundle is selected then CPU1 OCP2 x8 enablement OR CPU2 OCP2 x8 enablement kit cannot be selected.
- If 24NVMe Bundle is selected then Primary 3 x16 Cable OR Secondary 3 x16 Cable cannot be selected.

HPE ProLiant DL380 Gen11 24NVME Differential I/O OCP1/2 x8 FIO Bundle Kit

P53636-B21

Notes:

- If NVMe bundle is selected then defaulted Controller has to be deselected.
- If NVMe Bundle is selected then 8SFF U.3 x1 drive cage (P48813-B21) cannot be selected.
- If this NVMe Bundle is selected then Qty 1 of HPE DL380 Gen11 8NVMe CPU1/2 Cable Kit (P48825-B21) must be selected and defaulted.

Configuration Information

- If this NVMe Bundle is selected then Qty 1 of High Performance Fan Kit (P48820-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 3 (min) of 8SFF U.3 x4 drive cage must be selected.
- If 24NVMe Bundle is selected then Qty 1 of HPE DL380 Gen11 3x16 Primary Riser (P48803-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 1 of HPE DL380 Gen11 x8x16x8 Secondary Riser (P48802-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 1 of HPE DL300 Gen11 CPU1 OCP2 x8 Enable kit (P51911-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 1 of HPE DL385 Gen10+ 12Gb NVMe 2p Adapter (P25527-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 1 of HPE Gen4 Re-timer/-p Cable Kit (P54874-B21) must be selected and defaulted.
- If NVMe Bundle is selected then 8SFF U.3 x4 drive cage will be defaulted.
- NVMe Bundle is supported with 8SFF CTO Server Only.
- If 16NVMe/ 24NVMe Bundle is selected then Universal Media Bay kit cannot be selected.
- If NVMe Bundle is selected then Second Processor must be selected.
- If Tertiary Riser is selected along with 16NVMe Bundle then 2x16 Tertiary FIO x8 Enable Kit (P53632-B21) must be selected
- If 24NVMe Diff IO-1 bundle is selected then OCP1 x16 enablement Kit and OCP2 x16 enablement kit and CPU2 OCP2 x8 enablement Kit cannot be selected.
- If 24NVMe Bundle is selected then Pri 3 x16 Cable OR Sec 3 x16 Cable cannot be selected.

HPE ProLiant DL380 Gen11 24NVME Differential I/O OCP1 x16 FIO Bundle Kit

P53637-B21

Notes:

- If NVMe bundle is selected then defaulted Controller has to be deselected.
- If NVMe Bundle is selected then 8SFF U.3 x1 drive cage (P48813-B21) cannot be selected.
- If this NVMe Bundle is selected then Qty 1 of HPE DL380 Gen11 8NVMe CPU1/2 Cable Kit (P48825-B21) must be selected and defaulted.
- If this NVMe Bundle is selected then Qty 1 of High Performance Fan Kit (P48820-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 3 (min) of 8SFF U.3 x4 drive cage must be selected.
- If 24NVMe Bundle is selected then Qty 1 of HPE DL380 Gen11 3x16 Primary Riser (P48803-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 1 of HPE DL380 Gen11 x8x16x8 Secondary Riser (P48802-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 1 of OCP1 x16 Enablement Kit (P48827-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 1 of HPE DL385 Gen10+ 12Gb NVMe 2p Adapter (P25527-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 1 of HPE Gen4 Re-timer/-p Cable Kit (P54874-B21) must be selected and defaulted.
- If NVMe Bundle is selected then 8SFF U.3 x4 drive cage will be defaulted.
- NVMe Bundle is supported with 8SFF CTO Server Only.
- If 16NVMe/ 24NVMe Bundle is selected then Universal Media Bay kit cannot be selected.
- If NVMe Bundle is selected then Second Processor must be selected.
- If 24NVMe Bundle is selected then Tertiary Riser cannot be selected.
- If 24NVMe Diff IO-2 bundle is selected then OCP2 x16 enablement kit and CPU2 OCP2 enablement Kit OR CPU1 OCP2 x8 enablement Kit OR OCP2 x16 enablement cannot be selected.
- If 24NVMe Bundle is selected then Pri 3 x16 Cable OR Sec 3 x16 Cable cannot be

Configuration Information

selected.

HPE ProLiant DL380 Gen11 24NVMe Differential I/O OCP1/2 x16 FIO Bundle Kit P53638-B21

Notes:

- If NVMe bundle is selected then defaulted Controller has to be deselected.
- If NVMe Bundle is selected then 8SFF U.3 x1 drive cage (P48813-B21) cannot be selected.
- If this NVMe Bundle is selected then Qty 1 of HPE DL380 Gen11 8NVMe CPU1/2 Cable Kit (P48825-B21) must be selected and defaulted.
- If this NVMe Bundle is selected then Qty 1 of High Performance Fan Kit (P48820-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 3 (min) of 8SFF U.3 x4 drive cage must be selected.
- If 24NVMe Bundle is selected then Qty 1 of HPE DL380 Gen11 3x16 Primary Riser (P48803-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 1 of HPE DL380 Gen11 x8x16x8 Secondary Riser (P51083-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 1 of OCP1 x16 Enablement Kit (P48827-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 1 of OCP2 x16 Enablement Kit (P48828-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 2 of HPE DL385 Gen10+ 12Gb NVMe 2p Adapter (P25527-B21) must be selected and defaulted.
- If 24NVMe Bundle is selected then Qty 1 of HPE Gen4 Re-timer/-p Cable Kit (P54874-B21) must be selected and defaulted.
- If NVMe Bundle is selected then 8SFF U.3 x4 drive cage will be defaulted.
- NVMe Bundle is supported with 8SFF CTO Server Only.
- If 16NVMe/ 24NVMe Bundle is selected then Universal Media Bay kit cannot be selected.
- If NVMe Bundle is selected then Second Processor must be selected.
- If 24NVMe Bundle is selected then Tertiary Riser cannot be selected.
- If 24NVMe Balanced or 24NVMe DIFF IO-3 Bundle is selected then CPU1 OCP2 x8 enablement OR CPU2 OCP2 x8 enablement kit cannot be selected
- If 24NVMe Bundle is selected then Pri 3 x16 Cable OR Sec 3 x16 Cable cannot be selected.

HPE iLO Common Password FIO Setting P08040-B21

Notes: Sets common iLO password, instead of randomly generated password for each server during Factory Diagnostics.

HPE ProLiant Platform Certificate and IDevID iLO FIO Setting P42104-B21

Notes:

- Initial Device Identity (IDevID) certificates are part of a Zero Trust Architecture. This SKU instructs factory to provision IDevID on HPE iLO.
- Directs HPE manufacturing site to create, digitally sign and store a platform certificate on the server.
- Requires HPE Trusted Platform Module (TPM).

HPE Converged Infrastructure Management Software

HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU P8B26AAE

HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU E5Y35AAE

vSAN ReadyNode

- 3, 6, 8 or 16 node vSAN Clusters (3 node minimum)
- HW is optimized for vSAN
- VMware vSAN Advanced LTU bundled

Configuration Information

Step 4: Choose additional options for Factory Integration from Core and Additional Options sections below

Core Options

Some options may not be integrated at the factory. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an HPE approved configurator. Contact your local sales representative for additional information.

Software as a Service Management

HPE GreenLake for Compute Ops Management

Base SKU

HPE GreenLake for Compute Ops Management Enhanced 3-year Upfront ProLiant SaaS R7A11AAE

Upgrade SKUS

HPE GreenLake for Compute Ops Management Enhanced 1-year Upfront ProLiant SaaS R7A10AAE

HPE GreenLake for Compute Ops Management Enhanced 5-year Upfront ProLiant SaaS R7A12AAE

HPE OneView

HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU E5Y35AAE

HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU P8B26AAE

Notes: For customers purchasing HPE GreenLake for Compute Ops Management, without a hardware purchase or a BTO purchase, use this base SKU within ASQ order:

HPE GreenLake for Compute Ops Management Base SaaS R6Z73AAE

For more information, visit the HPE GreenLake for Compute Ops Management QuickSpecs:
<https://www.hpe.com/psnow/doc/a50004263enw>
Supported Servers - CTO only. No OEM. - Complete list can be found here: Latest Supported Server List:
<https://www.hpe.com/info/com-supported-servers>

HPE Unique Options

HPE ProLiant DL380 Gen11 12EDSFF Drive Cage Kit P48808-B21

Notes:

- This is the 12EDSFF drive cage.
- This drive cages holds a maximum of 12 single thickness EDSFF drives
- Currently available for Factory Install Only orders and not available for standalone or upgrade ordering.

HPE ProLiant DL380 Gen11 2SFF U.3 Primary/Secondary Riser Cage Kit P48810-B21

Notes:

- 2SFF drive cage for rear in Primary or Secondary riser position.
- This Drive cage can be selected with 8SFF CTO Server and 24SFF CTO Server Only.
- For 8SFF/ 24SFF CTO Server, Max = 2.

HPE ProLiant DL380 Gen11 2SFF U.3 HDD Stacking Drive Cage Kit P48811-B21

Notes:

- This is a 2SFF drive cage for front or rear. For a front mount it installs into Universal Media Bay.
- This drive cage supports controller and Direct Attach. If Direct Attached then it will support NVMe Drives only
- For 8SFF CTO Server, Max = 2.

HPE ProLiant DL380 Gen11 2SFF U.3 Side-by-Side Drive Cage Kit P48812-B21

Notes:

- This is 2SFF side-by-side drive cage for the 8LFF CTO server only.
- This Drive cage supports controller and Direct Attach. If Direct Attached then it will support NVMe drives only.
- Max = 1

Core Options

HPE ProLiant DL380 Gen11 2U 8SFF x1 Tri-Mode U.3 Drive Cage Kit P48813-B21

Notes:

- This is a 8SFF U.3 x1 front drive cage.
- This drive cage can be selected with 8SFF CTO Server Only.
- Max = 3
- If Qty3 of 8SFF Front cage is selected then High Performance Fan Kit (P48820-B21) must be selected.
- This Drive cage supports controller and Direct Attach. If Direct Attached then it will support SATA Drives only and connects to SATA port on motherboard.

HPE ProLiant DL380 Gen11 8SFF U.3 Premium Drive Cage Kit P48814-B21

Notes:

- This is a 8SFF U.3 x4 front drive cage.
- This Drive cage can be selected with 8SFF CTO Server Only.
- Max = 3
- If Qty3 is selected then High Performance Fan Kit (P48820-B21) must be selected.
- This drive cage supports controller and Direct Attach. If Direct Attached then it will support NVMe Drives only.

HPE ProLiant DL380 Gen11 4LFF SAS/SATA 12G LP Midplane Drive Cage Kit P48809-B21

Notes:

- This is the 4LFF mid-tray drive cage.
- This drive cage holds a maximum of 4LFF drives.
- Max 16LFF SAS/SATA is possible when storage controller is selected
- Max 14LFF SATA is possible if mid-tray is direct connected to motherboard

HPE ProLiant DL380 Gen11 8SFF x1 Tri-Mode 24G U.3 BC Midplane Drive Cage Kit P48815-B21

Notes:

- This is the 8SFF U.3 x1 mid-tray drive cage.
- This drive cage holds a maximum of 8 SAS/SATA/NVMe drives.

HPE ProLiant DL380 Gen11 2U 8SFF x4 U.3 Mid Tray Tri-Mode Drive Cage Kit P48816-B21

Notes:

- This is the 8SFF U.3 x4 mid-tray drive cage.
- This drive cage holds a maximum of 8 SAS/SATA/NVMe drives.

HPE ProLiant DL380 Gen11 2LFF Primary Riser Cage Kit P48823-B21

Notes:

- This is a 2LFF drive cage for the rear Primary Riser position.
- This Drive cage supports controller and Direct Attach. If Direct Attached then it will support SATA Drives only and connects to SATA port on motherboard.
- Max = 1
- This drive cage can be selected with 8LFF CTO Server and 12LFF CTO Server Only.

HPE ProLiant DL380 Gen11 2LFF Tertiary Riser Cage Kit P48826-B21

Notes:

- This is a 2LFF drive cage for the rear Secondary + Tertiary Riser position.
- Max = 1

HPE ProLiant DL380 Gen11 SFF Universal Media Bay Kit P50728-B21

Notes:

- This is the Universal Media Bay, it occupies an 8SFF drive cage slot on the front of the 8SFF CTO server.
- The Universal Media Bay can be selected with the 8SFF CTO Server only.

Core Options

HPE ProLiant DL380 Gen11 2LFF LP Secondary Riser Cage Kit P51095-B21

Notes:

- This is a 2LFF drive cage for the rear Primary Riser position.
- Max = 1
- This drive cage can be selected with 8LFF CTO Server and 12LFF CTO Server Only.

HPE ProLiant DL380/DL560 Gen11 2U High Performance Fan Kit P48820-B21

Notes:

- If Processor above 205W is selected then High Performance Fan Kit is required.
- If 128GB or higher memory is selected then High Performance Fan Kit is required.
- If quantity 3 of front drive cage is selected, then High Performance Fan Kit is required.
- If NVMe is selected, then High Performance Fan Kit is required.
- 24SFF CTO server comes with High Performance Fan Kit installed.

HPE ProLiant DL380 Gen11 Max Performance Heat Sink Kit P48817-B21

Notes:

- If Q series Processor is selected then Max Performance Heat Sink is required.
- Max = 1

HPE ProLiant DL380/DL560 Gen11 High Performance 2U Heat Sink Kit P48818-B21

Notes:

- If Processor above 150W is selected then High Performance Heat Sink is required.
- Number of Heat Sinks selected must match number of processor(s) selected.

HPE ProLiant DL3XX/560 Gen11 High Performance Heat Sink Kit P48905-B21

Notes: This is a low profile high performance heatsink, this is only used when storage mid-tray is selected.

HPE ProLiant DL380 Gen11 Standard Heat Sink Kit P49145-B21

Notes: Standard heatsink is for CPUs with 150W or lower TDP.

HPE ProLiant DL380/DL560 Gen11 2U Rear Serial Port Cable Kit P48824-B21

HPE ProLiant DL380 Gen11 System Insight Display Kit P48819-B21

Notes: Max = 1

HPE Processors

Processor Option Kits

4th Generation Intel Xeon-Platinum

Notes: All SKUs below ship with processor only. Adequate fans and heatsinks must be selected.

Intel Xeon-Platinum 9462 2.7GHz 32-core 350W Processor for HPE P49645-B21

Notes: This is Intel High Bandwidth Memory (HBM) CPU.

Intel Xeon-Platinum 8490H 1.9GHz 60-core 350W Processor for HPE P49630-B21

Intel Xeon-Platinum 8480+ 2.0GHz 56-core 350W Processor for HPE P49607-B21

Intel Xeon-Platinum 8470Q 2.1GHz 52-core 350W Processor for HPE P49609-B21

Intel Xeon-Platinum 8470 2.0GHz 52-core 350W Processor for HPE P49606-B21

Intel Xeon-Platinum 8470N 1.7GHz 52-core 300W Processor for HPE P49649-B21

Intel Xeon-Platinum 8468V 2.4GHz 48-core 330W Processor for HPE P49631-B21

Intel Xeon-Platinum 8468 2.1GHz 48-core 350W Processor for HPE P49605-B21

Intel Xeon-Platinum 8458P 2.7GHz 44-core 350W Processor for HPE P49632-B21

Intel Xeon-Platinum 8460Y+ 2.0GHz 40-core 300W Processor for HPE P49604-B21

Intel Xeon-Platinum 8452Y 2.0GHz 36-core 300W Processor for HPE P49616-B21

Intel Xeon-Platinum 8444H 2.9GHz 16-core 270W Processor for HPE P49625-B21

Core Options

4thGeneration Intel Xeon-Gold

Notes: All SKUs below ship with processor only. Adequate fans and heatsinks must be selected.

Intel Xeon-Gold 6458Q 3.1GHz 32-core 350W Processor for HPE	P49608-B21
Intel Xeon-Gold 6448H 2.4GHz 32-core 250W Processor for HPE	P49622-B21
Intel Xeon-Gold 6448Y 2.1GHz 32-core 225W Processor for HPE	P49600-B21
Intel Xeon-Gold 6444Y 3.6GHz 16-core 270W Processor for HPE	P49602-B21
Intel Xeon-Gold 6442Y 2.6GHz 24-core 225W Processor for HPE	P49599-B21
Intel Xeon-Gold 6438N 2.0GHz 32-core 205W Processor for HPE	P49638-B21
Intel Xeon-Gold 6438Y+ 2.0GHz 32-core 205W Processor for HPE	P49615-B21
Intel Xeon-Gold 6434 3.7GHz 8-core 195W Processor for HPE	P49601-B21
Intel Xeon-Gold 6430 2.1GHz 32-core 270W Processor for HPE	P49614-B21
Intel Xeon-Gold 6454S 2.2GHz 32-core 270W Processor for HPE	P49654-B21
Intel Xeon-Gold 6426Y 2.5GHz 16-core 185W Processor for HPE	P49598-B21
Intel Xeon-Gold 6414U 2.0GHz 32-core 250W Processor for HPE	P49619-B21

Notes: Single socket capable, no dual socket support.

Intel Xeon-Gold 6421N 1.8GHz 32-core 185W Processor for HPE	P49641-B21
Intel Xeon-Gold 6418H 2.1GHz 24-core 185W Processor for HPE	P49621-B21
Intel Xeon-Gold 6416H 2.2GHz 18-core 165W Processor for HPE	P49620-B21
Intel Xeon-Gold 5415+ 2.9GHz 8-core 150W Processor for HPE	P49597-B21
Intel Xeon-Gold 5416S 2.0GHz 16-core 150W Processor for HPE	P49653-B21
Intel Xeon-Gold 5418N 1.8GHz 24-core 165W Processor for HPE	P49640-B21
Intel Xeon-Gold 5418Y 2.0GHz 24-core 185W Processor for HPE	P49612-B21
Intel Xeon-Gold 5420+ 2.0GHz 28-core 205W Processor for HPE	P49613-B21
Intel Xeon-Gold 5411N 1.9GHz 24-core 165W Processor for HPE	P49639-B21

4thGeneration Intel Xeon-Silver

Notes: All SKUs below ship with processor only. Adequate fans and heatsinks must be selected.

Intel Xeon-Silver 4410Y 2.0GHz 12-core 150W Processor for HPE	P49610-B21
Intel Xeon-Silver 4416+ 2.0GHz 20-core 165W Processor for HPE	P49611-B21

4thGeneration Intel Xeon-Bronze

Notes: All SKUs below ship with processor only. Adequate fans and heatsinks must be selected.

Intel Xeon-Bronze 3408U 1.8GHz 8-core 125W Processor for HPE	P49617-B21
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Memory Selection

To streamline the configuration process for HPE ProLiant Gen11 servers and to provide the best product availability, HPE recommends memory from the list located here:

<http://www.hpe.com/products/recommend>.

Best product availability is limited to US, Canada, and Latin America at this time.

Notes:

- HPE Server Memory compatibility for a specific server platform may vary or be limited within a server platform depending upon the specific configuration being requested. Because each server environment and requirements can vary, memory compatibility is based not only upon the server family, but may also be affected by the amount and type of additional hardware options installed within a specific server configuration. For this reason, some HPE memory DIMMs may be qualified for an HPE server model or family and yet occasionally not be supported with some configurations within that server family
- Maximum memory capacity and speed per processor is dependent on processor model selection or limitation.

Core Options

HPE DDR5 Memory

Registered DIMMs (RDIMMs)

HPE 16GB (1x16GB) Single Rank x8 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P43322-B21
HPE 32GB (1x32GB) Dual Rank x8 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P43328-B21
HPE 64GB (1x64GB) Dual Rank x4 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	P43331-B21

HPE 96GB (1x96GB) Dual Rank x4 DDR5-4800 CAS-46-45-45 EC8 Registered Smart Memory Kit	P66675-B21
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Notes: 96GB DIMMs only supported on XCC CPUs.

HPE 128GB (1x128GB) Quad Rank x4 DDR5-4800 CAS-46-39-39 EC8 Registered 3DS Smart Memory Kit	P43334-B21
HPE 256GB (1x256GB) Octal Rank x4 DDR5-4800 CAS-46-39-39 EC8 Registered 3DS Smart Memory Kit	P43337-B21

Notes:

- Memory should be installed in even quantity of DIMMs
- 4800 MT/s memory SKUs offer a transfer rate of 4800 MT/s at 1 DIMM per channel and 4400 MT/s at 2 DIMMs per channel
- Mixing of 3DS memory and non-3DS memory is not supported
- Mixing of x4 and x8 memory is not allowed
- If 96GB or higher density memory is selected then High Performance Fan Kit must be selected.
- 96GB memory cannot be mixed with any other memory.
- 96GB memory configuration must be either 8 or 16 only on 1 processor unit.
- 96GB memory configuration must be either 16 or 32only on 2 processor unit.

HPE DDR Blank Kit

HPE DDR4 DIMM Blank Kit	P07818-B21
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Notes: DIMM Blanks are optional and not required.

HPE Optical Drives

HPE 9.5mm SATA DVD-ROM Optical Drive	726536-B21
Notes: HPE DL38X Gen11 Universal Media Bay Kit (P50728-B21) is required for this option on a SFF model. No support in 12 LFF or 24 SFF models.	
HPE 9.5mm SATA DVD-RW Optical Drive	726537-B21
Notes: HPE DL38X Gen11 Universal Media Bay Kit (P50728-B21) is required for this option on a SFF model. No support in 12 LFF or 24 SFF models.	
HPE Mobile USB DVD-RW Optical Drive	701498-B21
Notes: This is only supported on USB 3.0 ports.	

Media Bay Kits

HPE ProLiant DL380 Gen11 SFF Universal Media Bay Kit	P50728-B21
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Notes:

- The HPE DL380 Gen11 Universal Media bay provides front Display Port and 2xUSB 2.0; plus support for 2x SFF front drives or 2 NVME front drives (riser required) and ODD support (Not included); and can only be located in Box1 in either an 8 SFF or 8+8 SFF model.

Core Options

- This is a SFF model option only.
- Not supported on 12EDSFF, 24SFF, 12FF, or 8LFF CTO servers.

HPE Hard Disk Drives

Mission Critical - 12G SAS - SFF Drives

HPE 2.4TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Self-encrypting FIPS HDD	P28618-B21
HPE 1.2TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Self-encrypting FIPS HDD	P28622-B21

Enterprise - 12G SAS - SFF Drives

HPE 2.4TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD	P28352-B21
HPE 1.8TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD	P53562-B21
HPE 1.2TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD	P28586-B21
HPE 1TB SAS 12G Business Critical 7.2K SFF BC 1-year Warranty HDD	P53563-B21
HPE 900GB SAS 12G Mission Critical 15K SFF BC 3-year Warranty Multi Vendor HDD	P40432-B21
HPE 600GB SAS 12G Mission Critical 15K SFF BC 3-year Warranty Multi Vendor HDD	P53560-B21

HPE 600GB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD	P53561-B21
HPE 300GB SAS 12G Mission Critical 15K SFF BC 3-year Warranty Multi Vendor HDD	P28028-B21
HPE 300GB SAS 12G Mission Critical 10K SFF BC 3-year Warranty Multi Vendor HDD	P40430-B21

Midline - 12G SAS - SFF Drives

HPE 2TB SAS 12G Business Critical 7.2K SFF BC 1-year Warranty 512e HDD	P28505-B21
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Midline - 6G SATA - SFF Drives

HPE 2TB SATA 6G Business Critical 7.2K SFF BC 1-year Warranty 512e HDD	P28500-B21
HPE 1TB SATA 6G Business Critical 7.2K SFF BC 1-year Warranty HDD	P28610-B21

Midline - 12G SAS - LFF Drives

HPE 20TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	P53553-B21
HPE 18TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	P37669-B21
HPE 16TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	P23608-B21
HPE 14TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD	P09155-B21
HPE 12TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD	881781-B21
HPE 10TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e ISE Multi Vendor HDD	P53556-B21
HPE 8TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD	834031-B21
HPE 6TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD	861746-B21
HPE 4TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	833928-B21
HPE 2TB SAS 12G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	833926-B21

Midline - 6G SATA - LFF Drives

HPE 20TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	P53554-B21
HPE 18TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	P37678-B21
HPE 16TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e ISE Multi Vendor HDD	P23449-B21

Core Options

HPE 14TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD	P09165-B21
HPE 12TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Helium 512e Multi Vendor HDD	881787-B21
HPE 10TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e ISE Multi Vendor HDD	P53557-B21
HPE 8TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD	834028-B21
HPE 6TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty 512e Multi Vendor HDD	861742-B21
HPE 4TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	861683-B21
HPE 2TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	861681-B21
HPE 1TB SATA 6G Business Critical 7.2K LFF LP 1-year Warranty Multi Vendor HDD	861686-B21

SSD Selection

For SSD selection guidance, please visit <https://ssd.hpe.com/>

Read Intensive - NVMe - EDSFF - Solid State Drives

HPE 3.84TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF PM1743 SSD	P57799-B21
HPE 7.68TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF PM1743 SSD	P57803-B21
HPE 15.36TB NVMe Gen5 High Performance Read Intensive E3S EC1 EDSFF PM1743 SSD	P57807-B21

Notes: Selection of PM1743 EDSFF drives with VMware requires the selection of HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device(P48183-B21) for booting.

Read Intensive - 24G SAS - SFF - Solid State Drives

HPE 15.36TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49045-B21
HPE 7.68TB SAS 24G Read Intensive SFF BC Self-encrypting FIPS PM6 SSD	P41399-B21
HPE 7.68TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49041-B21
HPE 3.84TB SAS 24G Read Intensive SFF BC Self-encrypting FIPS PM6 SSD	P41398-B21
HPE 3.84TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49035-B21
HPE 1.92TB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49031-B21
HPE 960GB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49029-B21

Read Intensive - 12G SAS - SFF - Solid State Drives

HPE 7.68TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40509-B21
HPE 3.84TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40508-B21
HPE 1.92TB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40507-B21
HPE 960GB SAS 12G Read Intensive SFF BC Value SAS Multi Vendor SSD	P40506-B21
HPE 960GB SAS 24G Read Intensive SFF BC Multi Vendor SSD	P49029-B21

Mixed Use - 24G SAS - SFF - Solid State Drives

HPE 6.4TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49057-B21
HPE 3.2TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49053-B21
HPE 1.6TB SAS 24G Mixed Use SFF BC Self-encrypting FIPS PM6 SSD	P41401-B21
HPE 1.6TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49049-B21
HPE 800GB SAS 24G Mixed Use SFF BC Self-encrypting FIPS PM6 SSD	P41400-B21
HPE 800GB SAS 24G Mixed Use SFF BC Multi Vendor SSD	P49047-B21

Mixed Use - 12G SAS - SFF - Solid State Drives

HPE 3.84TB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40512-B21
HPE 1.92TB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40511-B21
HPE 960GB SAS 12G Mixed Use SFF BC Value SAS Multi Vendor SSD	P40510-B21

Very Read Optimized - 6G SATA - SFF - Solid State Drives

HPE 7.68TB SATA 6G Very Read Optimized SFF BC 5400 SSD	P58228-B21
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Read Intensive - 6G SATA - SFF - Solid State Drives

Core Options

HPE 7.68TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40501-B21
HPE 3.84TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40500-B21
HPE 3.84TB SATA 6G Read Intensive SFF BC PM893 SSD	P44010-B21
HPE 1.92TB SATA 6G Read Intensive SFF BC Self-encrypting 5400P SSD	P58240-B21
HPE 1.92TB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40499-B21
HPE 1.92TB SATA 6G Read Intensive SFF BC PM893 SSD	P44009-B21
HPE 480GB SATA 6G Read Intensive SFF BC Self-encrypting 5400P SSD	P58236-B21
HPE 480GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40497-B21
HPE 480GB SATA 6G Read Intensive SFF BC PM893 SSD	P44007-B21
HPE 960GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40498-B21
HPE 960GB SATA 6G Read Intensive SFF BC PM893 SSD	P44008-B21
HPE 240GB SATA 6G Read Intensive SFF BC Multi Vendor SSD	P40496-B21
Mixed Use - 6G SATA - SFF - Solid State Drives	
HPE 3.84TB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40505-B21
HPE 1.92TB SATA 6G Mixed Use SFF BC Self-encrypting 5400M SSD	P58248-B21
HPE 1.92TB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40504-B21
HPE 1.92TB SATA 6G Mixed Use SFF BC PM897 SSD	P44013-B21
HPE 960GB SATA 6G Mixed Use SFF BC Self-encrypting 5400M SSD	P58244-B21
HPE 960GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40503-B21
HPE 960GB SATA 6G Mixed Use SFF BC PM897 SSD	P44012-B21
HPE 480GB SATA 6G Mixed Use SFF BC Multi Vendor SSD	P40502-B21
HPE 480GB SATA 6G Mixed Use SFF BC PM897 SSD	P44011-B21
Mixed Use - 12G SAS - LFF -Solid State Drives	
HPE 960GB SAS 12G Mixed Use LFF LPC Value SAS Multi Vendor SSD	P37009-B21
Very Read Optimized - 6G SATA - LFF - Solid State Drives	
HPE 7.68TB SATA 6G Very Read Optimized LFF LPC 5400 SSD	P58232-B21
Read Intensive - 6G SATA - LFF - Solid State Drives	
HPE 960GB SATA 6G Read Intensive LFF LPC Multi Vendor SSD	P47808-B21
Read Intensive - NVMe - SFF - Solid State Drives	
HPE 15.36TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50224-B21
HPE 7.68TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64848-B21
HPE 7.68TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50222-B21
HPE 7.68TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static Multi Vendor SSD	P47847-B21
HPE 3.84TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64846-B21
HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC Self-encrypting FIPS U.3 CM6 SSD	P41403-B21
HPE 3.84TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50219-B21
HPE 3.84TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static Multi Vendor SSD	P47846-B21
HPE 1.92TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64844-B21
HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC Self-encrypting FIPS U.3 CM6 SSD	P41402-B21
HPE 1.92TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 PM1733a SSD	P50216-B21
HPE 1.9TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static Multi Vendor SSD	P47845-B21

Core Options

HPE 960GB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static V2 Multi Vendor SSD	P64842-B21
HPE 960GB NVMe Gen4 Mainstream Performance Read Intensive SFF BC U.3 Static Multi Vendor SSD	P47844-B21
Mixed Use - NVMe - SFF - Solid State Drives	
HPE 6.4TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65023-B21
HPE 6.4TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50233-B21
HPE 6.4TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static Multi Vendor SSD	P47840-B21
HPE 3.2TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65015-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC Self-encrypting FIPS U.3 CM6 SSD	P41405-B21
HPE 3.2TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50230-B21
HPE 3.2TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static Multi Vendor SSD	P47839-B21
HPE 1.6TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P65007-B21
HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC Self-encrypting FIPS U.3 CM6 SSD	P41404-B21
HPE 1.6TB NVMe Gen4 High Performance Mixed Use SFF BC U.3 PM1735a SSD	P50227-B21
HPE 1.6TB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static Multi Vendor SSD	P47838-B21
HPE 800GB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static V2 Multi Vendor SSD	P64999-B21
HPE 800GB NVMe Gen4 Mainstream Performance Mixed Use SFF BC U.3 Static Multi Vendor SSD	P47837-B21

Hard Drive Blank Kits

HPE Gen9 LFF HDD Spade Blank Kit	807878-B21
HPE Small Form Factor Hard Drive Blank Kit	666987-B21

Hard Drive Cage Kits

HPE ProLiant DL380 Gen11 12EDSFF Drive Cage Kit	P48808-B21
Notes: Currently available as Factory Install Only and not available for standalone or upgrade ordering.	
HPE ProLiant DL380 Gen11 2U 8SFF x1 Tri-Mode U.3 Drive Cage Kit	P48813-B21
HPE ProLiant DL380 Gen11 8SFF U.3 Premium Drive Cage Kit	P48814-B21
HPE ProLiant DL380 Gen11 SFF Universal Media Bay Kit	P50728-B21
HPE ProLiant DL380 Gen11 2SFF U.3 HDD Stacking Drive Cage Kit	P48811-B21
HPE ProLiant DL380 Gen11 2SFF U.3 Side-by-Side Drive Cage Kit	P48812-B21

Core Options

HPE ProLiant DL380 Gen11 2SFF U.3 Primary/Secondary Riser Cage Kit	P48810-B21
HPE ProLiant DL380 Gen11 8SFF x1 Tri-Mode 24G U.3 BC Midplane Drive Cage Kit	P48815-B21
HPE ProLiant DL380 Gen11 2U 8SFF x4 U.3 Mid Tray Tri-Mode Drive Cage Kit	P48816-B21
HPE ProLiant DL380 Gen11 4LFF SAS/SATA 12G LP Midplane Drive Cage Kit	P48809-B21
HPE ProLiant DL380 Gen11 2LFF Primary Riser Cage Kit	P48823-B21
HPE ProLiant DL380 Gen11 2LFF LP Secondary Riser Cage Kit	P51095-B21
HPE ProLiant DL380 Gen11 2LFF Tertiary Riser Cage Kit	P48826-B21

HPE Networking

1 Gigabit Ethernet adapters

Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T Adapter for HPE	P51178-B21
Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	P21106-B21

10 Gigabit Ethernet adapters

Notes: Unless otherwise noted, one of the below 10Gb networking adapters below can be selected as the primary networking choice when configuring a Networking Choice (NC) Configure-to-Order (CTO) chassis. The DL380 Gen11 NC CTO chassis does not come with embedded networking, hence the requirement to configure with either a FlexibleLOM or select PCIe networking adapter.	
Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T Adapter for HPE	P26253-B21
Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ Adapter for HPE	P26259-B21

25 Gigabit Ethernet adapters

Notes: Unless otherwise noted, one of the below 10/25Gb networking adapters below can be selected as the primary networking choice when configuring a Networking Choice (NC) Configure-to-Order (CTO) chassis. The DL380 Gen11 NC CTO chassis does not come with embedded networking, hence the requirement to configure with either an OCP3 or select PCIe networking adapter.	
Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	P26264-B21
Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P26262-B21
Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P08443-B21
Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	P08458-B21
Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P42044-B21

100 Gigabit Ethernet Adapters

Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE	P25960-B21
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Recommended System Ambient Temperature	
System Config	P25960-B21
8LFF	25C
24SFF	Not support
16SFF	25C
8SFF	25C

Other Restrictions

1. These cards are not supported with 12LFF CTO server and 24SFF CTO server config.

2. Required to use High Performance Fan Kit (P48820-B21)

3. Only supported on x16 physical and electrical slots.
- | | |
|---|------------|
| Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE | P21112-B21 |
|---|------------|

Core Options

Recommended System Ambient Temperature	
System Config	P21112-B21
8LFF	25C
24SFF	Not supported
16SFF	25C
8SFF	30C

- Notes:**
- This adapter requires High Performance Fan Kit (P48820-B21).
 - Not supported on 8SFF CTO server with 3x drive cages.
 - Not Supported with 24SFF and 12LFF CTO Servers.
 - Only supported on x16 physical and electrical slots.

200 Gigabit Ethernet Adapters

Mellanox MCX623105AS-VDAT Ethernet 200Gb 1-port QSFP56 Adapter for HPE P10180-B21

Recommended Ambient Temperate	
System Config	P10180-B21
8LFF	25C
24SFF	25C (3 max)
16SFF	25C
8SFF	30C

200 Gigabit Slingshot Adapters

HPE Slingshot SA210S Ethernet 200Gb 1-port PCIe NIC R4K46A

- Notes:**
- Can only be selected or configured for a Cray or Slingshot Solution. Not allowed for a Non-Cray or Non-Slingshot Solution.
 - Cannot have the following networking options configured within the same server:
Slingshot 11 or Slingshot 22.

Storage Offload Adapters

HPE NV60100M 100Gb 2-port Storage Offload Adapter R8M41A

Notes: This storage offload adapter requires selection 2 each of either 100GbE QSFP28 PSM4 500m XCVR OR 100GbE QSFP28 SR4 100m XCVR transceivers OR HPE 100GbE QSFP28 to QSFP28 5m AOC.

OCP 3.0 Adapters

Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P51181-B21
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P08449-B21
Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE	P10097-B21
Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE	P26256-B21
Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE	P26269-B21
Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10115-B21
Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P10106-B21
Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P42041-B21
Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	P22767-B21

OCP 3.0 Enablement

HPE ProLiant DL360 Gen11 CPU1 to OCP2 x8 Enablement Kit	P51911-B21
HPE ProLiant DL3XX Gen11 OCP1 x16 Enablement Kit	P48827-B21
HPE ProLiant DL3XX Gen11 OCP2 x16 Enablement Kit	P48828-B21
HPE ProLiant DL3XX Gen11 CPU2 to OCP2 x8 Enablement Kit	P48830-B21

Core Options

DL380 Gen11 OCP 1 and OCP 2 Priority Support Matrix

OCP Slot Location	1 OCP Storage Controller (OROC) + 1OCP NIC	1 OCP NIC	2 OCP NICs	1 OCP Storage Controller (OROC)	2 OCP Storage Controllers (OROC)
OCP 1	OROC	N/A	OCP NIC	OROC (Higher priority)	OROC (Higher priority)
OCP 2 (with shared NIC and WoL)	OCP NIC	NIC (higher priority)	OCP NIC (higher priority)	N/A	OROC

HPE InfiniBand

HPE InfiniBand NDR200 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter	P45642-B21
HPE InfiniBand NDR 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter	P45641-B21

Notes:

- High Performance Fan Kit is required (P48820-B21).
- Must be populated in x16 physical and electrical slot.
- Ambient temperature should not exceed 25C.

HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 OCP3 MCX653435A-HDAI Adapter	P31323-B21
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Recommended Ambient Temperature	
System Config	P31323-B21
8LFF	25C (only to OCP2)
24SFF	Not supported
16SFF	25C (only to OCP2)
8SFF	30C (only to OCP2)

HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 OCP3 MCX653436A-HDAI Adapter	P31348-B21
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Recommended Ambient Temperature	
System Config	P31323-B21
8LFF	Not supported
24SFF	Not supported
16SFF	Not supported
8SFF	25C (only to OCP2)

Other Restrictions

1. High Performance Fan Kit is required (P48820-B21).
2. Not supported on 24SFF CTO server or 12LFF CTO server.
3. Ambient temperature should not exceed 25C.
4. OCP2 x16 Enablement Kit (P48828-B21) is required.
5. 256GB DIMMs not supported if these adapters are selected.
6. Max = 1Could observe sub-optimal performance if installed in x8 slot.

HPE InfiniBand HDR/Ethernet 200Gb 1-port QSFP56 PCIe4 x16 MCX653105A-HDAT Adapter	P23664-B21
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Core Options

Recommended Ambient Temperature	
System Config	P23664-B21
8LFF	25C
24SFF	Not supported
16SFF	25C
8LFF	30C

Other Restrictions

- 1. High Performance Fan Kit is required (P48820-B21).
- 2. Must be populated in x16 physical and electrical slot.
- 3. Ambient temperature should not exceed 25C.

If configured for a Cray or Slingshot Solution, this option is to be used as the Slingshot 10 networking card.
HPE InfiniBand HDR/Ethernet 200Gb 2-port QSFP56 PCIe4 x16 MCX653106A-HDAT Adapter P31324-B21

Recommended System Ambient Temperature	
System Config	P31324-B21
8LFF	25C
24SFF	Not supported
16SFF	25C
8SFF	25C

Other Restrictions

- 1. High Performance Fan Kit is required (P48820-B21).
- 2. Not supported on 24SFF CTO server or 12LFF CTO server.
- 3. Must be populated in x16 physical and electrical slot.
- 4. Ambient temperature should not exceed 25C.

If configured for a Cray or Slingshot Solution, this option is to be used as the Slingshot 10 networking card.
HPE 100Gb 1-port OP101 QSFP28 x16 PCIe Gen3 with Intel Omni-Path Architecture Adapter 829335-B21

Notes:

–High Performance Fan Kit is required (P48820-B21).

–Must be populated in x16 physical and electrical slot.

HPE InfiniBand HDR100/Ethernet 100Gb 1-port QSFP56 PCIe4 x16 MCX653105A-ECAT Adapter P23665-B21

Notes: High Performance Fan Kit is required (P48820-B21).

HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter P23666-B21

Recommended Ambient Temperature		
System Config	P23665-B21	P23666-B21
8LFF	30C	25C
24SFF	30C	Not supported
16SFF	30C	25C
8SFF	30C	30C

Core Options

Notes:

- High Performance Fan Kit is required (P48820-B21).
- Must be populated in x16 physical and electrical slot.
- If 2SFF drive cage is selected then Max = 2
- Max = 4

HPE I/O Expansion Options

Notes:

- The Primary Riser shipping default in the CTO server is a x8 FH, FL, x16 FH, FL and x8 FH, HL.
- For a Secondary/Tertiary riser, the second processor is required.
- x16 cards installed on x8 slots could observe sub-optimal performance.

HPE ProLiant DL380 Gen11 2U x16/x16/x16 Primary Riser Kit

P48803-B21

Notes:

- Slot 1 - PCIe 5.0 x16 Full Height and Full Length
- Slot 2 - PCIe 5.0 x16 Full Height and Full Length
- Slot 3 - PCIe 5.0 x16 Full Height and Half Length
- If 24NVMe Bundle is selected then Qty 1 of HPE DL380 Gen11 3x16 Pri Rsr must be selected and defaulted.
- If this Primary Riser is selected then default Primary Riser is replaced with this riser.
- If Slot 1 of HPE DL380 Gen11 2U 3x16 Primary Riser Kit needs to be enabled then 3 x16 Primary Cable Kit (P56073-B21) must be selected.
- If Primary 3 x16 Cable Kit is NOT selected then only Slot 2 and Slot 3 will be available for PCIe card selection and no PCIe cards can be selected for Slot 1.

HPE ProLiant DL380 Gen11 2U x16/x16/x16 Secondary Riser Kit

P51083-B21

Notes:

- Slot 4 - PCIe 5.0 x16 Full Height and Full Length
- Slot 5 - PCIe 5.0 x16 Full Height and Full Length
- Slot 6 - PCIe 5.0 x16 Full Height and Half Length
- When 2LFF Tertiary Cage is selected then Secondary and Tertiary Riser cannot be selected.
- When 2LFF Secondary Cage is selected then Secondary Riser cannot be selected.
- If 24NVMe Bundle is selected then Qty 1 of HPE DL380 Gen11 3x16 SEC Rsr must be selected and defaulted.
- If Slot 4 of HPE DL380 Gen11 2U 3x16 Secondary Riser Kit needs to be enabled then 3 x16 Secondary Cable Kit (P56074-B21) must be selected.
- If Secondary 3 x16 Cable Kit is NOT selected then only Slot 5 and Slot 6 will be available and no PCIe cards can be selected for Slot4.
- If Secondary OR Tertiary Riser is selected then Second Processor must be selected.

Core Options

– Tertiary Riser and Secondary 3 x16 Riser cannot be selected together.

HPE ProLiant DL380 Gen11 2U Primary/Secondary NEBS-compliant Riser KitP48805-B21

Notes:

- GPU and NEBS Riser cannot be selected together.
- When this riser is selected it replaces the default Primary Riser.
- When Primary and Secondary NEBS risers are selected the Tertiary Riser cannot be selected.
- NEBS risers cannot be mixed with other non-NEBS risers.

HPE ProLiant DL380 Gen11 2U Secondary/Tertiary NEBS-compliant Riser KitP48806-B21

Notes:

- This riser requires selection of second processor.
- GPU and NEBS Riser cannot be selected together.
- When Primary and Secondary NEBS risers are selected the Tertiary Riser cannot be selected.
- NEBS risers cannot be mixed with other non-NEBS risers.
- When 24 NVMe or 32 NVMe bundles are selected the Tertiary Riser cannot be selected.

HPE ProLiant DL380 Gen11 2U x8/x16/x8 Secondary Riser KitP48802-B21

Notes:

- Slot 4 - PCIe 5.0 x8 Full Height and Full Length
- Slot 5 - PCIe 5.0 x16 Full Height and Full Length
- Slot 6 - PCIe 5.0 x8 Full Height and Half Length
- If quantity 1 of 2SFF Primary/Secondary Drive Cage is selected then HPE DL380 Gen11 x8x16x8 secondary riser is required.
- If quantity 1 of 2SFF Primary/Secondary Drive Cage is selected then top two slots (Slot 4 and Slot 5) of HPE DL380 Gen11 x8x16x8 Secondary Riser will be blocked by Drive Cage.
- If 2LFF Tertiary Drive Cage is selected then Secondary and Tertiary Riser cannot be selected.
- if 2LFF Secondary Drive Cage is selected then Secondary Riser cannot be selected.
- If 24NVMe Bundle is selected then quantity 1 of HPE DL380 Gen11 x8x16x8 secondary riser must be selected.
- If Secondary OR Tertiary Riser is selected then Second Processor must be selected.

HPE ProLiant DL380 Gen11 2U x16/x16 Tertiary Riser KitP48804-B21

Notes:

- This is the tertiary riser.
- Slot 7 - PCIe 5.0 x16 Full Height and Full Length
- Slot 8 - PCIe 4.0 x16 Full Height and Full Length

HPE ProLiant DL380 Gen11 x16/x16/x16 Primary Cable KitP56073-B21

HPE ProLiant DL380 Gen11 x16/x16/x16 Secondary Cable KitP56074-B21

HPE ProLiant DL380 Gen11 2x16 Tertiary Riser x8 Enablement FIO Bundle KitP53632-B21

Risers

Core Options

Riser Information*							
Part number	Description	Riser position			Bus width (Gen5 lanes)		
		Primary	Secondary	Tertiary	Top slot	Middle Slot	Bottom slot
N/A	This is the default riser in the chassis	D	N	N	x8	x16	x8
P48803-B21	HPE DL380 Gen11 x16/x16/x16 Primary Riser Kit	O	N	N	x16	x16	x16 ¹
P51083-B21	HPE DL380 Gen11 x16/x16/x16 Secondary Riser Kit	N	O	N	x16	x16	x16 ²
P48802-B21	HPE DL38X Gen11 x8/x16/x8 Sec Riser Kit	N	O	N	x8	x16	x8
P48804-B21	HPE DL38X Gen11 2x16 Tertiary Riser Kit	N	N	O	x16	x16 ³	
P48805-B21	HPE ProLiant DL380 Gen11 2U Primary/Secondary NEBS-compliant Riser Kit	O	N	N	x8	x16	x8
P48806-B21	HPE ProLiant DL380 Gen11 2U Secondary/Tertiary NEBS-compliant Riser Kit	N	O	N	x8	x16	x8

Notes:

- D = Default on chassis; O = Optional; N = not supported or slot/connector not present.
- ¹Requires HPE DL380 Gen11 x16/x16/x16 Primary Cable Kit (P56073-B21)
- ²Requires HPE DL380 Gen11 x16/x16/x16 Secondary Cable Kit (P56074-B21)
- ³PCIe Gen4 lanes.
- x16 cards installed on x8 slots could observe sub-optimal performance.

HPE Power Supplies

HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit

P38995-B21

Notes: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.

HPE 1000W Flex Slot Titanium Hot Plug Power Supply Kit

P03178-B21

Notes: Flex Slot Titanium power supplies support power efficiency of up to 96% and include a standard C-14 power inlet connector.

HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit

P38997-B21

Notes: Flex Slot Platinum Plus power supplies support power efficiency of up to 94% and include a C-14 power inlet connector that can support HPE Power Discovery Services (blue connector).

HPE 1600W Flex Slot -48VDC Hot Plug Power Supply Kit

P17023-B21

Notes: Requires selection of HPE 1600W DC PSU power lug option kit OR HPE 1600W DC PSU Power Cable Kit.

HPE 1600W -48VDC Power Cable Lug Kit

P36877-B21

HPE 1800W-2200W Flex Slot Titanium Hot Plug Power Supply Kit

P44712-B21

Notes:

- Flex Slot Platinum power supplies support power efficiency of up to 94% and are EU Lot 9 compliant.
- Beginning on January 1st, 2024, units sold into the European Union (EU), European Economic Area (EEA), the United Kingdom, or Switzerland must include more efficient AC power supplies: 94% for multi-output and 96% for single-output. HPE Flexible Slot power supplies are single-output, and part numbers 865438-B21, P03178-B21, and P44712-B21

Core Options

are 96% efficient, thus meeting requirements. HPE is on target to fulfil compliant systems ahead of time and will begin enforcing these requirements in advance to satisfy requests with the current power supplies by the set deadline.

HPE Cooling Options

HPE ProLiant DL380/DL560 Gen11 2U High Performance Fan Kit

P48820-B21

Notes:

This kit is required for specific **Ambient temperature environments**.
High Performance fan kit consists of 6 fans, these will need to replace all the standard fans in the unit, and fill all 6 fan cages.
The 24 SFF CTO server will already include 6 High Performance fan kits.
The High Performance fan kit is needed to support certain ASHRAE operating environments.
For elevated ambient temperature support please see: **DL380 Gen11 Extended Ambient Temperature Guidelines**.

HPE ProLiant DL380 Gen11 Max Performance Heat Sink Kit

P48817-B21

Notes: This kit is required for "Q" series processors.

HPE ProLiant DL380/DL560 Gen11 High Performance 2U Heat Sink Kit

P48818-B21

Notes: This kit is CPUs with TDP over 150W.

HPE ProLiant DL3XX/560 Gen11 High Performance Heat Sink Kit

P48905-B21

This kit is a low profile high performance heatsink. This heatsink is required when a mid-tray storage cage is selected.

HPE ProLiant DL380 Gen11 Standard Heat Sink Kit

P49145-B21

Notes: The standard heatsink is for CPUs with TDP equal to or lower than 150W.

HPE Direct Liquid Cooling Options for HPE ProLiant DL380 Gen11 (coming 2H23)

HPE ProLiant DL380 Gen11 Cold Plate Module NS204 Quick Disconnect Tube Set FIO Kit

P62023-B21

Notes:

This kit is the Direct Liquid Cooling Kit that uses the NS204i-u slot for connections
If this option is selected the HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device(P48183-B21) cannot be selected.
This kit contains 2 Cold Plate Modules and 1 Quick Disconnect Module.

HPE ProLiant DL3XX Gen11 Cold Plate Module FIO Kit from PCIe

P62029-B21

Notes:

This kit is the Direct Liquid Cooling Kit that uses a PCIe slot on the Primary Riser.
If this option is selected the Primary Riser will have one less PCIe slot available for PCIe adapters. Please keep this in mind when considering total number of PCIe adapters required.
This kit contains 2 Cold Plate Modules and 1 Quick Disconnect Module.

Core Options

HPE ProLiant DL3XX Gen11 Direct Liquid Cooling 600mm FIO Hose Kit	P62038-B21
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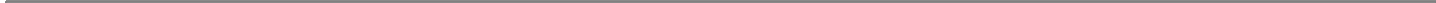
Notes:

- This kit includes the 65CM tube kit for Direct Liquid Cooling.
- This kit must be selected when using the Direct Liquid Colling Kit in the NS204i-u slot (P62023-B21).

HPE ProLiant DL3XX Gen11 Direct Liquid Cooling 55cm Quick Disconnect Tube Set FIO Kit	P62042-B21
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Notes:

- This kit includes the 55CM tube kit for Direct Liquid Cooling.
- This kit must be selected when using the Direct Liquid Colling Kit in the Primary Riser slot (P62029-B21).



Additional Options

Some options may not be integrated at the factory. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an HPE approved configurator. Contact your local sales representative for additional information.

HPE Computation and Graphics Accelerators

Intel Data Center GPU Max 1100 48GB Accelerator for HPE

S1T66C

Notes:

- Max = 2
- This GPU is PCIe x16, so it must be populated on a x16 slot only. The "PCIe Card Capacity Limits" must account for this limitation.
- Thermal constraints for this GPU are based on ambient temperature of 25 degrees Centigrade.
- Mixing of GPU types is not allowed.
- High Performance Fan Kit is required.
- This GPU is not supported with 12LFF CTO Server and 24SFF CTO Server.
- The system memory must be at least twice the memory of all GPUs.
- When this GPU is selected then the top x16 PCIe slot (FH FL) connector on the riser kit CANNOT be utilized as the GPU occupies this space. The "PCIe Card Capacity Limits" must account for this limitation.
- For the DL380 Gen11 12EDSFF CTO Server, If EDSFF Bundle is selected then this GPU cannot be selected.
- If this GPU is selected, then HPE DL380/DL560 Gen11 2U GPU Power Cable Kit (P56072-B21) must be selected.
- If this GPU is selected, then High Performance Heatsink or Direct Liquid Cooling (DLC) must be selected.
- If this GPU is selected with Intel Liquid Cooled Processors (Q) then Direct Liquid Cooling (DLC) must be selected.

NVIDIA H100 80GB PCIe Accelerator for HPE

R9S41C

Notes:

- Max = 3
- Must be populated in x16 slot.
- System memory should be 2x of GPU memory.
- Requires selection of High-Performance Fan Kit.
- This GPU requires HPE ProLiant DL380/DL560 Gen11 2U GPU Power Cable Kit - P56072-B21
- Not supported with 12LFF CTO Server, 24SFF CTO Server, or 8SFF CTO Server with 3x 8SFF drive cages.
- For 12EDSFF CTO Server, If no additional cage is selected then Max of 2 GPU can be selected per Server.
- On 12EDSFF CTO Server, when one additional 8SFF cage is selected with DLC Component then Max 1 GPU can be selected per sever.
- On 8SFF CTO Server, If Qty2 of 8SFF Front cage is selected with DLC Component then Max 1 GPU can be selected per sever.
- On 8SFF CTO Server, If Qty2 of 8SFF Front cage is selected without DLC Component then this GPU is not supported.
- For 12EDSFF CTO Server, when additional cages are selected without DLC Component then this GPU is not supported
- For 8LFF CTO Server, If NO DLC component is selected then this GPU is not supported.
- On 8LFF CTO Server, If DLC component is selected then Max 1 GPU can be selected per sever.

Additional Options

- If Qty1 of this GPU is selected then Secondary OR Tertiary Riser Must be selected.
- If Qty2 of this GPU is selected then Secondary AND Tertiary Riser Must be selected.

NVIDIA L40 48GB PCIe Accelerator for HPE S0K90C

Notes:

- Max = 3
- Must be populated in x16 slot.
- System memory should be 2x of GPU memory.
- Requires selection of High Performance Fan Kit.
- This GPU requires HPE ProLiant DL380/DL560 Gen11 2U GPU Power Cable Kit - P56072-B21
- On 8SFF CTO Server, if Qty2 of 8SFF Front cage is selected without DLC component then Max of 2 GPU can be selected per Server.
- On 8SFF CTO Server, if Qty1 of 8SFF Front cage is selected then Max of 3 GPU can be selected per Server.
- On 8LFF CTO Server, if NO DLC component is selected then Max of 2 GPU can be selected per Server
- On 8LFF CTO Server, if DLC component is selected then Max of 3 GPU can be selected per Server.
- On 12LFF CTO Server, 24SFF CTO Server, or 8SFF CTO Server with Qty3 8SFF drive cages if NO DLC component is selected then Max of 1 GPU can be selected per Server
- On 12LFF CTO Server, 24SFF CTO Server, or 8SFF CTO Server with Qty3 8SFF drive cages and DLC component is selected then Max of 2 GPU can be selected per Server.
- On 12EDSFF CTO Server, if one additional 8SFF cage is selected without DLC Component then Max 2 GPU can be selected per sever.
- On 12EDSFF CTO Server, if one additional 8SFF cage is selected with DLC Component then Max 3 GPU can be selected per sever.
- On 8SFF CTO Server, if Qty2 of 8SFF Front cage is selected with DLC component then Max of 3 GPU can be selected per Server.

NVIDIA L4 24GB PCIe Accelerator for HPE S0K89C

Notes:

- Max = 8
- System memory should be 2x of GPU memory.
- Requires selection of High Performance Fan Kit
- On 12LFF CTO Server, 24SFF CTO Server, or 8SFF CTO Server with Qty3 8SFF drive cages are selected without DLC component then Max of 5 can be selected per server

NVIDIA A16 64GB PCIe Non-CEC Accelerator for HPE R8T26C

Notes:

- Max = 3
- System memory should be 2x of GPU memory.
- This GPU requires Pwr Cable Kit (P39102-B21) to also be selected.
- This GPU requires HPE DL380/DL560 G11 2U High Perf Fan Kit P48820-B21.
- Coming to Gen11 by end of April 2023.

NVIDIA A100 80GB PCIe Non-CEC Accelerator for HPE R9P49C

Notes:

- Max = 3
- System memory should be 2x of GPU memory.
- This GPU requires Pwr Cable Kit (P39102-B21) to also be selected.
- This GPU requires HPE DL380/DL560 G11 2U High Perf Fan Kit P48820-B21.
-

Additional Options

Intel Data Center GPU Max 1100 48GB Accelerator for HPE

S1T66C

Notes:

- Max = 2
- This GPU is PCIe x16, so it must be populated on a x16 slot only. The "PCIe Card Capacity Limits" must account for this limitation.
- Mixing of GPU types is not allowed.
- Requires selection of High-Performance Fan Kit.
- System memory should be 2x of GPU memory.
- Quantity1 of this cable can support max of 3 double wide GPUs.
- When this GPU is selected then the top x16 PCIe slot (FH FL) connector on the riser kit CANNOT be utilized as the GPU occupies this space. The "PCIe Card Capacity Limits" must account for this limitation.
- Full Length (FL) PCIe Card and Mid Tray cannot be selected together.
- This GPU requires HPE DL380/DL560 Gen11 2U GPU Power Cable Kit (P56072-B21)
- If Qty2 of this GPU is selected, then Secondary Riser must be selected.
- For 12LFF CTO Server/ 24SFF CTO Server/ 8SFF CTO Server with front 3 8SFF Cage/ 12EDSFF CTO Server with EDSFF Bundle, if this GPU is selected then DLC Must be selected.
- If Qty3 of DW GPU is selected, then Pri 3 x16 Riser cable and Sec 3 x16 Riser Cable cannot be selected.

HPE ProLiant DL300 Gen10 Plus GPU 8-pin Keyed Cable Kit

P39102-B21

Notes:

- This GPU power cable is used for NVIDIA A16 and NVIDIA A100 GPUs.
- One power cable supports up to 3x GPUs

HPE ProLiant DL380/DL560 Gen11 2U GPU Power Cable Kit

P56072-B21

Notes:

- This GPU power cable is used for NVIDIA H100 and NVIDIA L40 GPUs.
- One power cable supports up to 3x GPUs

GPU Information

HPE DL380 Gen11 Configuration						
Part number	Card	Qty Supported	PCI e	8SFF	16SFF/8LFF	24SFF/12LFF
S1T66C	Intel® Data Center GPU Max 1100	2	Gen 5	2@35C(Air)	2@35C(Air) if CPU ? 185W.	Not Supported
R9S41C	NVIDIA H100 80GB PCIe Accelerator	2 or 3	Gen 5	2@25C (Air) 3@20C (DLC)	2 @ 20C (Air) 2 @ 25C (DLC)	Not supported
S0K90C	NVIDIA L40 48GB PCIe Accelerator	3	Gen 4	3@25C(Air) 3@25C(DLC)	2@25C(Air) 3@25C(DLC)	1@25C(Air) 2@25C(DLC)
S0K89C	NVIDIA L4 24GB PCIe Accelerator	8	Gen 4	8	8@25C(Air) 8@25C(DLC)	5@25C(Air) 8@25C(DLC)
R9P49C	NVIDIA A100 80GB PCIe Non-CEC Accelerator	3	Gen 4	30C	25C	Not supported
R8T26C	NVIDIA A16 64GB PCIe Non-CEC Accelerator for HPE	3	Gen 4	30C	25C	Not supported

Additional Options

Maximum GPU Support at 25C Ambient Temperature			
Qty SFF Drive Cages	Cooling Method	NVIDIA A16	NVIDIA A100
1 drive cage	Air Cooled + Heatsink	3	3
2 drive cages	Air Cooled + Heatsink	2	2
3 drive cages	Air Cooled + Heatsink	1	
1 drive cage	Direct Liquid Cooling	3	3
2 drive cages	Direct Liquid Cooling	3	3
3 drive cages	Direct Liquid Cooling	2	

Embedded Management

HPE iLO Common Password FIO Setting

HPE iLO Common Password FIO Setting

P08040-B21

Notes:

- Replaces iLO default randomized password by an HPE defined common password. HPE highly recommends changing this password immediately after the initial onboarding process.
- Customers who want to choose their own custom iLO default password should use the HPE Factory Express Integration Services

HPE iLO Advanced

HPE iLO Advanced Electronic License with 1yr Support on iLO Licensed Features	E6U59ABE
HPE iLO Advanced 1-server License with 1yr Support on iLO Licensed Features	512485-B21
HPE iLO Advanced Flexible Quantity License with 1yr Support on iLO Licensed Features	512486-B21
HPE iLO Advanced AKA Tracking License with 1yr Support on iLO Licensed Features	512487-B21
HPE iLO Advanced Electronic License with 3yr Support on iLO Licensed Features	E6U64ABE
HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505A
HPE iLO Advanced Flexible Quantity License with 3yr Support on iLO Licensed Features	BD506A
HPE iLO Advanced AKA Tracking License with 3yr Support on iLO Licensed Features	BD507A

HPE Converged Infrastructure Management Software

HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU	P8B26AAE

Notes: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded.

HPE Security

HPE Trusted Supply Chain for HPE ProLiant

P36394-B21

Notes:

- HPE Trusted Supply Chain (P36394-B21) is an optional security upgrade intended for agencies and regulated industries needing enhanced security and compliance needs. Applying this option to a DL380 Gen11 CTO server ensures it is built in the USA in a secured facility by vetted HPE personnel assigned to the manufacturing processes. A multitude of checkpoints/inspections for malicious microcode and counterfeit parts are performed throughout the server build, and additional safeguards are put in place against cyber-exploits throughout the server lifecycle. The HPE ProLiant DL380 Gen11 is re-branded as a HPE ProLiant DL380T Gen11 to denote the HPE Trusted Supply Chain

Additional Options

security enhancements. The DL380T Gen11 is Trade Agreement Act (TAA) compliant.

Learn more at <http://www.hpe.com/security>

- This option requires the selection of HPE Gen11 Intrusion Detection Kit (P48922-B21)
- This option requires the selection of either HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features (BD505A) or HPE iLO Advanced 1-server License with 1yr Support on iLO Licensed Features (512485-B21)
- This option is limited to stand-alone DL380 Gen11 CTO servers only. The HPE Trusted Supply Chain configuration will not be available if the server is ordered as factory integrated into a rack
- One instance of the following Electronic License to Use is required per order (not per server): R6X85AAE
- HPE Trusted Supply Chain E-LTU
- Logistics delivery speeds and services are available and selectable within Next Gen Quoter.
- This option cannot be selected with TAA instruction SKU nor TAA CTO Models

HPE iLO Common Password FIO Setting

P08040-B21

Notes:

- Replaces iLO default randomized password by an HPE defined common password. HPE highly recommends changing this password immediately after the initial onboarding process.
- Customers who want to choose their own custom iLO default password should use the HPE Factory Express Integration Services

HPE Gen11 2U Bezel Kit

P50400-B21

HPE Bezel Lock Kit

875519-B21

Notes: Requires the bezel kit

HPE Boot Controllers

HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device

P48183-B21

Notes:

- This is the NS204i-u hot pluggable boot device
- Default is NVMe are internal to system and not hot pluggable
- If external accessible drives are needed please add trigger SKU P54542-B21 HPE ProLiant DL380 Gen11 NS204i-u FIO Bundle Kit. This trigger SKU allows NVMe drives to be externally accessible and hot pluggable.
- Max = 1

HPE ProLiant DL380 Gen11 NS204i-u Internal Cable Kit

P52152-B21

Notes:

- If NS204i-u Gen11 Hot Plug Boot Option Device is selected then HPE DL380 Gen11 NS204i-u Internal Cable Kit is required.
- Max = 1

HPE ProLiant DL380 Gen11 NS204i-u FIO Bundle Kit

P54542-B21

Notes:

- This SKU is required only when external accessible drives are required for the NS204i-u.
- Max = 1

HPE Storage Controllers

The Gen11 storage controller portfolio has been updated to include new technology like OCP3.0 as well as PCIe adapters.. For a more detailed breakout of the available Gen11 controllers visit the storage controllers QuickSpecs site:

[HPE MegaRAID Storage Controllers](#)

Additional Options

HPE Tri-Mode Controllers

HPE MR416i-p Gen11 x16 Lanes 8GB Cache PCI SPDM Plug-in Storage Controller	P47777-B21
HPE MR416i-o Gen11 x16 Lanes 8GB Cache OCP SPDM Storage Controller	P47781-B21
HPE MR216i-p Gen11 x16 Lanes without Cache PCI SPDM Plug-in Storage Controller	P47785-B21
HPE MR216i-o Gen11 x16 Lanes without Cache OCP SPDM Storage Controller	P47789-B21
HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller	P58335-B21
HPE ProLiant DL320/DL380 Gen11 PCIe Gen5 Retimer Card	P48833-B21

Notes: When adding this retimer as a field upgrade, it is recommended to update the UBM5 PIC to a minimum of version 1.10. This firmware can be downloaded at:

https://support.hpe.com/connect/s/softwaredetails?language=en_US&softwareId=MTX_23c46bfbef394b5e9353075c5e

HPE SR932i-p Gen11 x32 Lanes 8GB Wide Cache PCI SPDM Plug-in Storage Controller	P47184-B21
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Notes: Requires x16 riser slot

Essential RAID Controllers

HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller	804398-B21
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NVMe Adapter

HPE DL385 Gen10 Plus 12Gb NVMe 2-port Adapter	P25527-B21
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HPE Cable Options

HPE ProLiant DL380 Gen11 12EDSFF CPU1/2 Cable Kit	P52153-B21
HPE ProLiant DL360 Gen11 Storage Controller Enablement Cable Kit	P48918-B21
HPE ProLiant DL380 Gen11 8SFF CPU1/2 NVMe Cable Kit	P48825-B21
HPE ProLiant DL380 Gen11 8SFF OROC1/2 x2 Cable Kit	P48829-B21
HPE ProLiant DL380 Gen11 2U Tri-Mode Premium Cable Kit	P48831-B21
HPE ProLiant DL380 Gen11 Tri-Mode Splitter Cable Kit	P48832-B21
HPE ProLiant DL380 Gen11 PCIe Gen5 Retimer Card Cable Kit	P52154-B21
HPE ProLiant DL380 Gen11 8SFF to Retimer/-P Controller Cable Kit	P54874-B21
HPE ProLiant DL380 Gen11 LFF Front Tri-Mode Cable Kit	P56995-B21

Optional Upgrades

HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	P01366-B21
HPE Smart Storage Hybrid Capacitor with 145mm Cable Kit	P02377-B21

Notes: Provides backup power for multiple HPE storage controllers or other devices.

HPE Tape Backup

For the complete range of tape drives, autoloaders, libraries and media see:

<https://www.hpe.com/us/en/storage/storeever-tape-storage.html> For hardware and software compatibility of Hewlett Packard Enterprise tape backup products
<http://www.hpe.com/storage/BURAcompatibility>

HPE Storage Options**Emulex Fibre Channel HBAs**

Additional Options

HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	R2J62A
HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	R2J63A
HPE SN1700E 64Gb 1-port Fibre Channel Host Bus Adapter	R7N77A
HPE SN1700E 64Gb 2-port Fibre Channel Host Bus Adapter	R7N78A
QLogic Fibre Channel HBAs	
HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	R2E08A
HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	R2E09A

HPE Racks

- Please see the [HPE Advanced Series Racks QuickSpecs](#) for information on additional racks options and rack specifications.
- Please see the [HPE Enterprise Series Racks QuickSpecs](#) for information on additional racks options and rack specifications.
- Please see the [HPE Standard Series Racks QuickSpecs](#) for information on additional racks options and rack specifications.

HPE Power Distribution Units (PDUs)

- Please see the [HPE Basic Power Distribution Units \(PDU\) QuickSpecs](#) for information on these products and their specifications.
- Please see the [HPE Metered Power Distribution Units \(PDU\) QuickSpecs](#) for information on these products and their specifications. Please see the [HPE Intelligent Power Distribution Unit \(PDU\) QuickSpecs](#) for information on these products and their specifications.
- Please see the [HPE Metered and Switched Power Distribution Units \(PDU\) QuickSpecs](#) for information on these products and their specifications.

HPE Uninterruptible Power Systems (UPS)

- To learn more, please visit the [HPE Uninterruptible Power Systems \(UPS\) web page](#).
- Please see the [HPE DirectFlow Three Phase Uninterruptible Power System QuickSpecs](#) for information on these products and their specifications.
- Please see the [HPE Line Interactive Single Phase UPS QuickSpecs](#) for information on these products and their specifications.

HPE Rack Options

Please see the [HPE KVM Switches web page](#) for information on these products and their specifications.

Easy Install Rail Kits

Easy Install rail kits contain telescoping rails which allow for in-rack serviceability.

To assist in the installation of the server into the rack an optional installation tool is available by contacting your local services representative.

Notes: Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.

HPE ProLiant DL3XX Gen11 Easy Install Rail 3 Kit	P52341-B21
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Additional Options

Notes: Does not include Cable Management Arm (CMA) (P22020-B21).

HPE DL38X Gen10 Plus 2U Cable Management Arm for Rail Kit

P22020-B21

HPE USB and SD Options

Notes:

- In vSphere 7.0, VMware made changes that impact the use of an SD Card/USB media as a standalone boot device and will be removing support for them after version 7.x.
- SD Card/USB media can still be used as a standalone boot option through all 7.x releases via published [Customer Advisory Usage of SD Card/USB Devices As Standalone Boot Devices Has Changed Due to System Storage Changes For VMware ESXi 7.0 \(Or Later\)](#).
- For any major release beyond VMware ESXi 7.x, VMware will require M.2 or another local persistent device as the standalone boot option.

HPE USB Keyboard/Mouse Kits

HPE USB US Keyboard/Mouse Kit	631341-B21
HPE USB UK Keyboard/Mouse Kit	631344-B21
HPE USB FR Keyboard/Mouse Kit	631346-B21
HPE USB ES Keyboard/Mouse Kit	631348-B21
HPE USB DE Keyboard/Mouse Kit	631358-B21
HPE USB JP Keyboard/Mouse Kit	631360-B21
HPE USB IT Keyboard/Mouse Kit	631362-B21
HPE USB CN Keyboard/Mouse Kit	631364-B21
HPE USB AE Keyboard/Mouse Kit	638212-B21
HPE USB RU Keyboard/Mouse Kit	638214-B21
HPE USB SE Keyboard/Mouse Kit	672097-103
HPE USB CH Keyboard/Mouse Kit	672097-113
HPE USB PT Keyboard/Mouse Kit	672097-133
HPE USB TR Keyboard/Mouse Kit	672097-143
HPE USB CZ Keyboard/Mouse Kit	672097-223
HPE USB FI Keyboard/Mouse Kit	672097-353
HPE USB AP/INTL Keyboard/Mouse Kit	672097-373
HPE USB INTL Keyboard/Mouse Kit	672097-B33
HPE USB IN Keyboard/Mouse Kit	672097-D63
HPE USB KR Keyboard/Mouse Kit	672097-KD3

HPE Support Services**Installation & Startup Services**

HPE Install ProLiant DL38x(p) Service	U4554E
HPE Installation and Startup DL38x(p) Service	U4555E

Tech Care Services

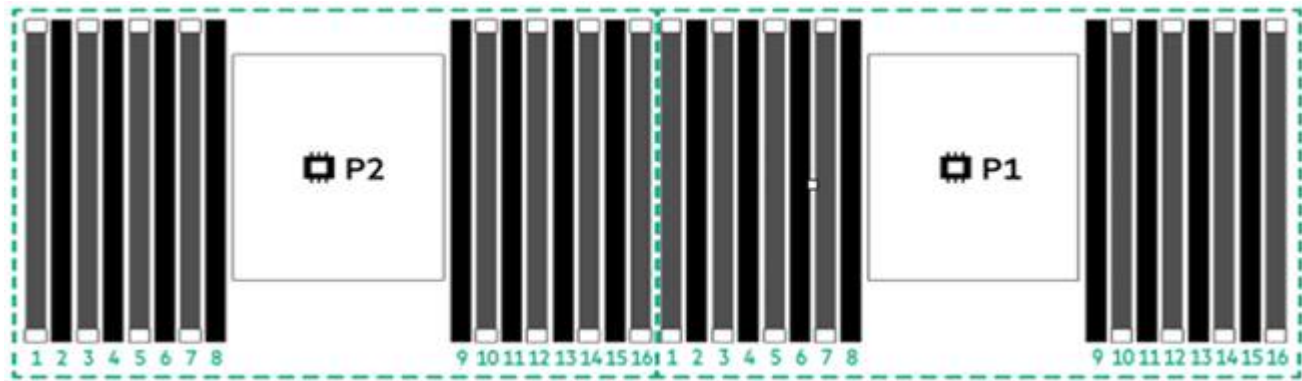
HPE 3 Year Tech Care Essential DL380 Gen11 HW Service	H93G4E
HPE 3 Year Tech Care Essential wDMR DL380 Gen11 HW Service	H93G5E
HPE 5 Year Tech Care Essential DL380 Gen11 HW Service	H93J8E
HPE 5 Year Tech Care Essential wDMR DL380 Gen11 HW Service	H93J9E

Additional Options

Notes: For a full listing of support services available for this server, please visit <http://www.hpe.com/services>.

Memory

Memory Population guidelines



HPE ProLiant DL380 Gen11

HPE ProLiant Gen11 16 slot per CPU DIMM population order																
DIMM population order																
DIMM slot	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1 DIMM										10						
2 DIMMs ²			3							10						
4 DIMMs ²			3				7			10				14		
6 DIMMs			3		5		7			10				14		16
8 DIMMs ^{1,2}	1		3		5		7			10		12		14		16
12 DIMMs	1	2	3		5	6	7			10	11	12		14	15	16
16 DIMMs ^{1,2}	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Notes:

- Ommited DIMM counts/socket not qualified by Intel.
- ¹ Supports SGX (Software Guard Extensions)
- ² Support Hemi (hemisphere mode).

General Memory Population Rules and Guidelines:

- DIMMs should be installed in quantities of even numbers.
- Install DIMMs only if the corresponding processor is installed.
- If only one processor is installed in a two-processor system, only half of the DIMM slots are available.
- To maximize performance, it is recommended to balance the total memory capacity between all installed processors.
- When two processors are installed, balance the DIMMs across the two processors.
- White DIMM slots denote the first slot to be populated in a channel.
- Mixing of DIMM types (UDIMM, RDIMM, and LRDIMM) is not supported.
- Mixing of x4 and x8 memory is not allowed.
- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- The maximum memory capacity is a function of the number of DIMM slots on the platform, the largest DIMM capacity qualified on the platform, and the number and model of installed processors qualified on the platform.
- For details on the HPE Server Memory Options Population Rules, visit:
[Server memory populations rules for HPE Gen11 servers with 4th Gen Intel Xeon Scalable processors](#)

Memory

- To realize the performance memory capabilities listed in this document, HPE DDR5 Smart Memory is required.
- For additional information, please see the [HPE DDR5 Smart Memory QuickSpecs](#).

HPE SKU P/N	P43322-B21	P43328-B21	P43331-B21
SKU Description	HPE 16GB (1x16GB) Single Rank x8 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	HPE 32GB (1x32GB) Dual Rank x8 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	HPE 64GB (1x64GB) Dual Rank x4 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit
DIMM Capacity	16GB	32GB	64GB
DIMM Rank	Single Rank (1R)	Dual Rank (2R)	Dual Rank (2R)
Voltage	1.1 V	1.1 V	1.1 V
DRAM Depth [bit]	2G	2G	4G
DRAM Width [bit]	x8	x8	x4
DRAM Density	16Gb	16Gb	16Gb
CAS Latency	40-39-39	40-39-39	40-39-39
DIMM Native Speed	4800 MT/s	4800 MT/s	4800 MT/s

HPE SKU P/N	P43334-B21	P43337-B21
SKU Description	HPE 128GB (1x128GB) Quad Rank x4 DDR5-4800 CAS-46-39-39 EC8 Registered 3DS Smart Memory Kit	HPE 256GB (1x256GB) Octal Rank x4 DDR5-4800 CAS-46-39-39 EC8 Registered 3DS Smart Memory Kit
DIMM Capacity	128GB	256GB
DIMM Rank	Quad Rank (4R)	Octal Rank (8R)
Voltage	1.1 V	1.1 V
DRAM Depth [bit]	4G	4G
DRAM Width [bit]	x4	x4
DRAM Density	16Gb	16Gb
CAS Latency	40-39-39	40-39-39
DIMM Native Speed	4800 MT/s	4800 MT/s

Notes: The maximum memory speed is a function of the memory type, memory configuration, and processor model.

For details on the HPE Server Memory speed, visit: <https://www.hpe.com/docs/memory-speed-table>

DDR5 memory options part number decoder

Notes:

- Capacity references are rounded to the common gigabyte (GB) values.
 - o 8GB = 8,192 MB
 - o 16GB = 16,384 MB
 - o 32GB = 32,768 MB
 - o 64GB = 65,536 MB
 - o 96GB = 98,304 MB
 - o 128GB = 131072 MB
 - o 256GB = 262144 MB
 - o 512GB = 524288 MB

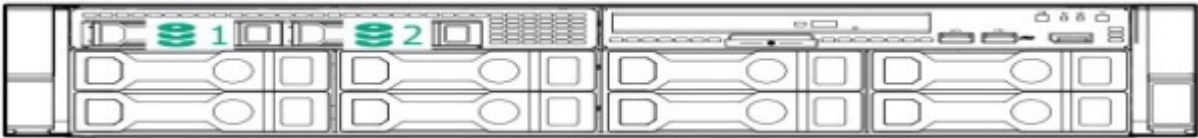
For more information on memory, please see the Memory Quickspecs: [HPE DDR5 Smart Memory](#)

Memory Speed Table for HPE ProLiantDL380 Gen Gen11

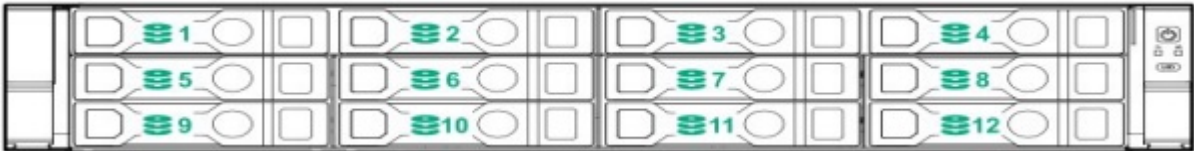
For details on the HPE Server Memory speed, please visit: <https://www.hpe.com/docs/memory-speed-table>

Memory

Storage



8LFF chassis with Universal media bay and optional 2SFF and optical drive shown



12 LFF chassis



24 SFF + rear 2 SFF drives

Technical Specifications

System Unit
Dimensions

- **SFF CTO servers:**
8.75 x 44.8 x 72.7. cm / 3.44 x 17.64 x 28.62 in
- **LFF CTO servers:**
8.75 x 44.8 x 73.25 cm / 3.44 x 17.64 x 28.84 in

Weight (approximate)

- **Maximum:** 8 SFF hard drives (no rear drives), 2x processors, 2x power supplies, 1x RAID controller, 2x Risers installed
 - **Maximum:** 33kg/72.75 lbs
 - **Minimum:** 16kg/35.27 lbs
- **Maximum:** 12 LFF hard drives (no rear drives), 2x processors, 2x power supplies, 1x RAID controller, 2x Risers installed
 - **Maximum:** 37kg/81.57 lbs
 - **Minimum:** 18kg/39.68 lbs

Input Requirements (per power supply)
Rated Line Voltage

- For 1800W-2200W (Titanium) Power Supply: 200-240 VAC
- For 1600W (Platinum) Power Supply: 200-240 VAC
- For 800W (Titanium) Power Supply: 200-240 VAC
- For 800W (Platinum) Power Supply: 100-240 VAC
- For 800W (Universal) Power Supply: 200-277 VAC

BTU Rating
Maximum

- For 1800W-2200W Power Supply: 6497 BTU/hr (at 200 VAC), 6868 BTU/hr (at 208 VAC), 7230 BTU/hr (at 220 VAC), 7596 BTU/hr (at 230VAC), 7962 BTU/hr (at 240VAC)
- For 1600W Power Supply: 5918 BTU/hr (at 200 VAC), 5888 BTU/hr (at 220 VAC), 5884 BTU/hr (at 240 VAC)
- For 800W (Titanium) Power Supply: 2905 BTU/hr (at 200 VAC), 2899 BTU/hr (at 220 VAC), 2893 BTU/hr (at 240 VAC)
- For 800W (Platinum) Power Supply: 3067 BTU/hr (at 100 VAC), 2958 BTU/hr (at 200 VAC), 2949 BTU/hr (at 240 VAC)
- For 800W (Universal) Power Supply: 2964 BTU/hr (at 200 VAC), 2951 BTU/hr (at 230 VAC), 2936 BTU/hr (at 277 VAC)

Relative Humidity (non-condensing)

- **Operating**
8% to 90% - Relative humidity (Rh), 28°C maximum wet bulb temperature, non-condensing.
- **Non-operating**

Technical Specifications

5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing..

Power Supply Output

(per power supply)

Rated Steady-State Power

- For 1800W-2200W Power Supply: 1800W(at 200 VAC), 1900W(at 208 VAC), 2000W(at 220 VAC), 2100W(at 230VAC), 2200W(at 240VAC)
- For 1600W Power Supply: 1600W (at 240 VAC), 1600W (at 240 VDC) for China only
- For 800W (Titanium) Power Supply: 800W (at 200 VAC), 800W (at 240 VAC), 800W (at 240 VDC) for China only
- For 800W (Platinum) Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VDC) input for China only
- For 800W (Universal) Power Supply: 800W (at 200 VAC), 800W (at 277 VAC)

Maximum Peak Power

- For 1800W-2200W Power Supply: 1800W(at 200 VAC), 1900W(at 208 VAC), 2000W(at 220 VAC), 2100W(at 230VAC), 2200W(at 240VAC)
 - For 1600W Power Supply: 1600W (at 240 VAC), 1600W (at 240 VDC) for China only
 - For 800W (Titanium) Power Supply: 800W (at 200 VAC), 800W (at 240 VAC), 800W (at 240 VDC) for China only
 - For 800W (Platinum) Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VDC) input for China only
 - For 800W (Universal) Power Supply: 800W (at 200 VAC), 800W (at 277 VAC)
-

System Inlet Temperature

• Standard Operating Temperature

10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed.

System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).

• Extended Ambient Operating Temperature

For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: **DL380 Gen11 Extended**

Ambient Temperature Guidelines

For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL:

DL380 Gen11 Extended Ambient Temperature Guidelines

System performance may be reduced if operating in the extended ambient operating range or with a fan fault.

Technical Specifications

- **Non-operating**
-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).

Altitude

- **Operating**
3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
- **Non-operating**
9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).

Acoustic Noise

Listed are the declared A-Weighted sound power levels (LwA,m) and declared average bystander position A-Weighted sound pressure levels (LpA,m) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels. Please have your HPE representative provide information from the HPE EMESC website for further technical details regarding the configurations listed below.

Acoustic Noise	
Idle	
LwA,m	4.2 B Entry 4.2 B Base 4.2 B Performance
LpAm	28 dBA Entry 27 dBA Base 30 dBA Performance
Operating	
LwA,m	4.2 B Entry 4.2 B Base 4.2 B Performance
LpAm	29 dBA Entry 27 dBA Base 29 dBA Performance
Kv	0.4 B Entry 0.4 B Base 0.4 B Performance

Notes:

- The declared mean A-weighted sound power level, LwA,m, is computed as the arithmetic average of the measured.
- A-weighted sound power levels for a randomly selected sample, rounded to the nearest 0,1 B.
- The declared mean A-weighted emission sound pressure level, LpA,m, is computed as the arithmetic average of the measured A-weighted emission sound pressure levels at the bystander positions for a randomly selected sample, rounded to the nearest 1 dB.
- The statistical adder for verification, Kv, is a quantity to be added to the declared mean A-weighted sound power level, LwA,m, such that there will be a 95 % probability of acceptance, when using the verification procedures of ISO 9296, if no more than 6,5 % of the batch of new equipment, has A-weighted sound power levels greater than (LwA,m + Kv).

Technical Specifications

- The quantity, LwA,c (formerly called LwAd), can be computed from the sum of LWA,m and Kv.
 - All measurements made to conform to ISO 7779 / ECMA-74 and declared to conform to ISO 9296 / ECMA-109.
 - B, dB, abbreviations for bels and decibels, respectively, where 1 B = 10 dB.
 - The results in this declaration apply only to the model numbers listed above when operating and tested according to the indicated modes and standards. A system with additional configuration components or increased operating functionality may increase the noise emission values.
 - System under abnormal conditions may increase the noise level, persons in the vicinity of the product [cabinet] for extended periods of time should consider wearing hearing protection or using other means to reduce noise exposure.
-

Emissions Classification (EMC) - Regulatory Information

To view the regulatory information for your product, view the Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products, available at the Hewlett Packard Enterprise Support Center:

<http://www.hpe.com/support/Safety-Compliance-EnterpriseProducts>

Environment-friendly Products and Approach End-of-life Management and Recycling

Hewlett Packard Enterprise offers **end-of-life product return, trade-in, and recycling programs**, in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

Summary of Changes

Date	Version History	Action	Description of Change
06-Nov-2023	Version 12	Changed	Overview, Configuration Information and Additional Options sections were updated
02-Oct-2023	Version 11	Changed	Overview, Configuration Information and Additional Options sections were updated
11-Sep-2023	Version 10	Changed	Standard Features section was updated
05-Sep-2023	Version 9	Changed	Overview, Standard Features, Configuration Information, Core Options and Memory sections were updated
24-Jul-2023	Version 8	Changed	Standard Features section was updated
10-Jul-2023	Version 7	Changed	Overview, Standard Features, Pre- Configured Models, Configuration Information and Core Options sections were updated
05-Jun-2023	Version 6	Changed	Overview, Standard Features, Pre- Configured Models, Configuration Information and Core Options sections were updated
01-May-2023	Version 5	Changed	Standard Features, Configuration Information, Core Options and Technical Specifications sections were updated.
03-Apr-2023	Version 4	Changed	Standard Features, Pre- Configured Models, Configuration Information, Core Options and Technical Specifications sections were updated.
06-Mar-2023	Version 3	Changed	Standard Features and Core Options sections were updated.
15-Feb-2023	Version 2	Changed	Standard Features section was updated
10-Jan-2023	Version 1	New	New QuickSpecs

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For hard drives, 1GB = 1 billion bytes. Actual formatted capacity is less

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