

Specificații tehnice

Numărul procedurii de achiziție ocds-b3wdp1-MD-1663329662780 din 26.09.2022
Obiectul achiziției: Echipament informatic

Denumirea bunurilor/serviciilor	Denumirea modelului bunului/serviciului	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															
Bunuri																					
Lotul 1 – Server																					
Server	DL360 Gen10 Plus 8SFF CTO Server	China/CZ	HPE	Server parameters: Number of CPU Sockets: 2 Form factor (fully configured): 1U Form factor chassis: Rack Power supply type supported: 2 x 800W Flex Slot Platinum Hot Plug Power Power supply installed: 2 Installed CPU qty: 2 Expansion slots: 2xPCIe 3.0 Memory: Installed Size: 4x32 Gb (two modules for every CPU) RDIMM module Total Memory slots: 24 DIMM slots Memory type: DDR4 SmartMemory, Advanced ECC Memory Form Factor: RDIMM and LRDIMM Hard Drive Supported: 8xSFF drives Dimensions: 4.29 x 43.46 x 70.7 cm	<table border="1"> <thead> <tr> <th>Cant.</th> <th>Part Nr.</th> <th>Descrierea</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P28948-B21</td> <td>HPE DL360 Gen10+ 8SFF NC CTO Svr</td> </tr> <tr> <td>1</td> <td>P28948-B21#B19#B19</td> <td>DL360 Gen10 Plus 8SFF CTO Server</td> </tr> <tr> <td>2</td> <td>P36924-B21</td> <td>INT Xeon-G 5318Y CPU for HPE</td> </tr> <tr> <td>2</td> <td>P36924-B21#0D1#0D1</td> <td>Factory Integrated</td> </tr> </tbody> </table>	Cant.	Part Nr.	Descrierea	1	P28948-B21	HPE DL360 Gen10+ 8SFF NC CTO Svr	1	P28948-B21#B19#B19	DL360 Gen10 Plus 8SFF CTO Server	2	P36924-B21	INT Xeon-G 5318Y CPU for HPE	2	P36924-B21#0D1#0D1	Factory Integrated	
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			<ul style="list-style-type: none"> • Possibility to prevent any possibility of tampering of security signatures throughout the supply-chain. • The system must give users preview of the system health summary and sub-system details. • Diagnostics tools/scanners wrapped into one; always on, continuous monitoring; Rich configuration history; health and service alerts; Easy export and upload to service and support. • Provisioning and configuring the server without any separate media (No Smart Cards or CDs). • Command line support: SSHv2, RESTful API and Serial port. • RESTful API options supported: get full inventory, control power and reset, configure BIOS and Smart Array settings, status of server health, fetch event logs. • Security: runtime firmware validation, CNSA support, security modes, encrypted virtual media. • Active directory support. • Management protocols supported: SNMP, IPMI V2.0. • Possibility to connect to the remote management module trough a USB to ethernet cable. <p>Some of the features may require additional license.</p> <p>USB3.0 support: 1 front port, 2 x rear ports and 2 x internal ports Power On/Standby button and system power LED UID button/LED MicroSD Card slot</p> <p>Warranty: 3/3/3 - Server Warranty includes three years of parts, three years of labor, three years of onsite support coverage.</p>	<table border="1"> <tr> <td>1</td> <td>P26279-B21#0D1#0D1</td> <td>Factory Integrated</td> </tr> <tr> <td>1</td> <td>P10097-B21</td> <td>BCM 57416 10GbE 2p BASE-T OCP3 Adptr</td> </tr> <tr> <td>1</td> <td>P10097-B21#0D1#0D1</td> <td>Factory Integrated</td> </tr> <tr> <td>1</td> <td>339778-B21</td> <td>HPE Raid 1 Drive 1 FIO Setting</td> </tr> <tr> <td>1</td> <td>P26477-B21</td> <td>HPE DL36x Gen10+ High Perf Fan Kit</td> </tr> <tr> <td>1</td> <td>P26477-B21#0D1#0D1</td> <td>Factory integrated</td> </tr> <tr> <td>2</td> <td>P38995-B21</td> <td>HPE 800W FS Plat Ht Plg LH Pwr Sply Kit</td> </tr> <tr> <td>2</td> <td>P38995-B21#0D1#0D1</td> <td>HPE 800W II FS Plat HtPlg Pwr Supply Kit</td> </tr> <tr> <td>1</td> <td>BD505A</td> <td>HPE iLO Adv 1-svr Lic 3yr Support</td> </tr> <tr> <td>1</td> <td>BD505A#0D1#0D1</td> <td>Factory Integrated</td> </tr> <tr> <td>1</td> <td>867998-B21</td> <td>HPE 1U Gen10 Bezel Kit</td> </tr> </table>	1	P26279-B21#0D1#0D1	Factory Integrated	1	P10097-B21	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	1	P10097-B21#0D1#0D1	Factory Integrated	1	339778-B21	HPE Raid 1 Drive 1 FIO Setting	1	P26477-B21	HPE DL36x Gen10+ High Perf Fan Kit	1	P26477-B21#0D1#0D1	Factory integrated	2	P38995-B21	HPE 800W FS Plat Ht Plg LH Pwr Sply Kit	2	P38995-B21#0D1#0D1	HPE 800W II FS Plat HtPlg Pwr Supply Kit	1	BD505A	HPE iLO Adv 1-svr Lic 3yr Support	1	BD505A#0D1#0D1	Factory Integrated	1	867998-B21	HPE 1U Gen10 Bezel Kit	
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			<p>Not refurbished (Certificat/document care ar confirma că echipamentul nu este refurbished)</p> <p>Non End of Sales or End of Support</p> <p>Networking: 2x10Gbps Base-T adapters 802.1Q VLAN support Jumbo Frames: 9000KB Network adapter teaming</p> <p>CPU Parameters: CPU Cache: 35 MB CPU Clock Speed: 3 GHz CPU socket: FCLGA3647 Max Turbo Speed: 4 GHz Number of Cores: 24-core Number of Threads: 48 threads Thermal Design Power: 205 W Lithography: 14nm Max Memory Size: 1TB Memory Type: DDR4-2933 Instruction Set Extensions: Intel® SSE4.2, Intel® AVX, Intel® AVX2, Intel® AVX-512 Hyper-Threading Technology: Yes Execute Disable Bit: Yes</p> <p>Security:</p> <ul style="list-style-type: none"> • UEFI Secure Boot and Secure Start support • Immutable Silicon Root of Trust • FIPS 140-2 validation • Common Criteria certification • Configurable for PCI DSS compliance • Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser 	<table border="1"> <tr> <td>1</td> <td>867998-B21#0D1#0D1</td> <td>Factory Integrated</td> </tr> <tr> <td>1</td> <td>875519-B21</td> <td>HPE Bezel Lock Kit</td> </tr> <tr> <td>1</td> <td>875519-B21#0D1#0D1</td> <td>Factory Integrated</td> </tr> <tr> <td>1</td> <td>P13771-B21</td> <td>HPE Gen10 Plus TPM BR Module Kit</td> </tr> <tr> <td>1</td> <td>P13771-B21#0D1#0D1</td> <td>Factory Integrated</td> </tr> <tr> <td>1</td> <td>P14604-B21</td> <td>HPE Gen10+ Intrusion Detection Kit</td> </tr> <tr> <td>1</td> <td>P14604-B21#0D1#0D1</td> <td>Factory Integrated</td> </tr> <tr> <td>2</td> <td>P26479-B21</td> <td>HPE DL360 Gen10+ High Perf Heat Sink Kit</td> </tr> <tr> <td>2</td> <td>P26479-B21#0D1#0D1</td> <td>Factory integrated</td> </tr> <tr> <td>1</td> <td>P26485-B21</td> <td>HPE DL300 G10+ 1U SFF Easy Inst Rail Kit</td> </tr> <tr> <td>1</td> <td>P26485-B21#0D1#0D1</td> <td>Factory integrated</td> </tr> </table>	1	867998-B21#0D1#0D1	Factory Integrated	1	875519-B21	HPE Bezel Lock Kit	1	875519-B21#0D1#0D1	Factory Integrated	1	P13771-B21	HPE Gen10 Plus TPM BR Module Kit	1	P13771-B21#0D1#0D1	Factory Integrated	1	P14604-B21	HPE Gen10+ Intrusion Detection Kit	1	P14604-B21#0D1#0D1	Factory Integrated	2	P26479-B21	HPE DL360 Gen10+ High Perf Heat Sink Kit	2	P26479-B21#0D1#0D1	Factory integrated	1	P26485-B21	HPE DL300 G10+ 1U SFF Easy Inst Rail Kit	1	P26485-B21#0D1#0D1	Factory integrated	
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				<ul style="list-style-type: none"> • Smart card (PIV/CAC) and Kerberos based 2-factor Authentication • Secure Recovery – recover critical firmware to known good state on detection of compromised FW • Ability to rollback firmware • Secure erase of NAND • TPM (Trusted Platform Module) 1.2 option • TPM (Trusted Platform Module) 2.0 option • Bezel Locking Kit • Chassis Intrusion detection option <p>Industry Standard Compliance:</p> <ul style="list-style-type: none"> • ACPI 6.1 Compliant • PCIe 3.0 Compliant • WOL Support • Microsoft® Logo certifications • PXE Support • USB 3.0 Compliant • USB 2.0 Compliant (only on optional Universal Media Bay) • SMBIOS 3.1 • UEFI 2.6 (Unified Extensible Firmware Interface Forum) • Secure Digital 4.0 • TPM 1.2 and 2.0 support • Advanced Encryption Standard (AES) • Triple Data Encryption Standard (3DES) • SNMP v3 • TLS 1.2 • ASHRAE A3/A4 <p>UEFI Capabilities:</p>	<table border="1"> <tr> <td>1</td> <td>HU4B2A3</td> <td>HPE 3Y Tech Care Basic SVC</td> </tr> <tr> <td>1</td> <td>HU4B2A3#Z SA#ZSA</td> <td>HPE Proliant DL360 Gen10+ Support</td> </tr> </table> <p>Descrierea detaliata va fi atasata la licitatie (datasheet).</p>	1	HU4B2A3	HPE 3Y Tech Care Basic SVC	1	HU4B2A3#Z SA#ZSA	HPE Proliant DL360 Gen10+ Support	
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			<ul style="list-style-type: none">• Secure Boot and Secure Start enable for enhanced security• Operating system specific functionality• Support for > 2.2 TB (using GPT) boot drives• USB 3.0 Stack• Embedded UEFI Shell• PXE boot support for IPv6 networks• Workload Profiles for simple performance optimization <p>UEFI Boot mode only:</p> <ul style="list-style-type: none">• TPM 2.0 Support• NVMe Boot Support• Platform Trust Technology (PTT) can be enabled• iSCSI Software Initiator Support.• HTTP/HTTPs Boot support as a PXE alternative• Boot support for option cards that only support a UEFI option ROM <p>Supported Operating Systems:</p> <ul style="list-style-type: none">• Windows Server 2019: Essentials, Standard, Datacenter• Windows Server 2016: Essentials, Standard, Datacenter• Windows Server 2012 R2: Essentials, Standard, Datacenter• Microsoft Hyper-V Server: 2012 R2, 2016 & 2019• VMware vSphere: 6.0 U3, 6.5 U2 through U.3 & 6.7 U1 through U3, 7.0• ClearOS: 7.6; ClearVM: 2.0• Red Hat Enterprise Linux (RHEL): 7.6 w/ Kbase **, 8.0	
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			<ul style="list-style-type: none">• SUSE Linux Enterprise Server (SLES): 12 SP3, 15 (includes Xen)• Ubuntu: 18.04 LTS (4.15.0)• Oracle Linux: Oracle Linux 7.6 UEK Release 5 Update 2; Oracle VM 3.4.6 (UEK Release 4 Update 7)• Citrix: Hypervisor: 8.0, 8.1, 8.2; XenServer 7.1, 7.4, 7.5, 7.6 <p>HDD: 2x300 Gb SAS 12G Enterprise 10K SFF(2.5 in) hot swap.</p> <p>HBA Parameters: 16 Gb Dual Port Fibre Channel Host Bus Adapter Backward compatible with 8 and 4Gb FC environment. SFPs and optical cables included</p> <p>Raid Controller parameters: Storage interface (SAS/SATA):</p> <ul style="list-style-type: none">• 8 SAS lanes across 2x4 internal Mini-SAS ports• 12 Gb/s SAS, 6 Gb/s SATA technology• Mix-and-match SAS and SATA drives to the same controller• Support for SAS tape drives <p>2GB FBWC PCI Express 3.0 x8 link RAID 0, 1, 5, 6, 10, 50, 60, 1 Advanced Data Mirroring (ADM), 10 ADM Mixed mode (RAID logic drives and HBA physical drives simultaneously) Legacy and UEFI boot operation UEFI System Utilities (Storage configuration) Up to 238 physical drives</p>	
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			<p>Up to 64 logical drives</p> <p>Smart Array SR SmartCache (Optional license)</p> <p>Smart Array SR Secure Encryption (Optional license)</p> <p>SSD Smart Path</p> <p>Rapid Parity Initialization (RPI)</p> <p>Rapid rebuild</p> <p>Drive sanitize</p> <p>Performance optimization degraded reads and read coalescing</p> <p>Raid controller Performance:</p> <p>12 Gb/s SAS (1200 MB/s theoretical bandwidth per SAS lane)</p> <p>6 Gb/s SATA (600 MB/s theoretical bandwidth per SAS lane)</p> <p>PCI Express 3.0 x8 link width</p> <p>2GB 72-bit wide DDR4-2100 FBWC provides up to 16.8 GB/s maximum cache bandwidth</p> <p>Read ahead caching</p> <p>Write-back caching</p> <p>Array configuration features:</p> <p>Expand Array</p> <p>Heal Array</p> <p>Move Drives</p> <p>Re-Mirror Array</p> <p>Shrink Array</p> <p>Spare Management</p> <p>Split Mirrored Array</p>	
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			<p>Logical drive configuration features:</p> <ul style="list-style-type: none">Extend Logical DriveInstant Secure EraseMigrate RAID/Stripe SizeModifying Cache Write PolicyMove Logical DriveRe-enable Failed Logical Drive <p>Fault prevention features:</p> <p>Predictive drive failure detects possible drive failure before it occurs, allowing replacement of the component before failure occurs</p> <p>Background surface scan checks drives during inactive periods and automatically remaps bad sectors, ensuring data integrity</p> <p>Smart SSD Wear Gauge reports the amount of lifetime remaining on users SSDs</p> <p>Fault recovery:</p> <ul style="list-style-type: none">• Recovery ROM: This feature protects the user from a firmware image corruption by storing a redundant copy of the firmware image. If the active firmware image becomes corrupt, the controller will use the redundant firmware image and continue operating.• On-Line Spares: There is no limit to the number of spare drives that can be installed prior to drive failure. If a failure occurs, recovery begins with an On-Line Spare and data is reconstructed automatically	
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			<ul style="list-style-type: none"> • DRAM ECC detects and corrects data bit errors. <p>SSD Smart Path feature included in the Smart Array software stack improves Solid State Disk (SSD) read performance by up to 4x. Smart Path chooses the optimum path to the SSD and accelerates reads for all RAID levels and RAID 0 writes.</p> <p>Operating systems support:</p> <ul style="list-style-type: none"> • Microsoft Windows Server • Microsoft Windows Hyper-V Server • VMware vSphere ESXi • Red Hat Enterprise Linux (RHEL) • SUSE Linux Enterprise Server (SLES) • Oracle Solaris • Oracle Linux • Clear OS • Cent OS • Citrix XenServer <p>Raid controller management software available</p> <p>Sau echivalent: HPE ProLiant DL360 Gen10 (SKU # P24743-B21)</p>	
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