

SPECIFICAȚII TEHNICE (F4.1)

Numărul licitației: ocde-b3wdp1-MD-1540444411995							26.11.2018
Denumirea licitației: Tehnica de calcul							
Codul CPV	Denumirea bunurilor și/sau a serviciilor	Modelul articolului	Țara de origine	Producătorul	Specificarea tehnică deplină solicitată	Specificarea tehnică deplină propusă de către ofertant	Standarde de referință
Lotul #8							
30213100-6	UPS & Video Wall	SVX60KM2P 5B	US	Tripp-Lite	<p>UPS</p> <p>În conformitate cu specificațiile pentru Lotul #8</p>	<p>SmartOnline SVX Series UPS</p> <p>Type: Online Modular 3-Phase N+1</p> <p>Output Capacity: 60kW (30kW with N+1 Configuration); Supports 105-110% load for one hour, 111-125% load for 10 minutes, 126-150% for 1 minute and Over 150% for 200ms before switching to Bypass</p> <p>Nominal Output Voltage: 220V/380V; 230V/400V</p> <p>Nominal Input Voltage: 220/380V (3ph); 230/400V (3ph)</p> <p>Output AC Waveform (AC and Battery Mode): Pure Sine wave</p> <p>Frequency Compatibility: 50/60Hz; Auto-selectable and user adjustable</p> <p>HA functionality: Automatic inverter bypass; Hot swappable batteries; possibility parallel configuration 1+1; Cold-start operation support</p> <p>Voltage Regulation: Online, double-conversion power conditioning</p> <p>Power Modules: 2x Power modules with 30kW per each; the system supports the addition of up to 2x additional user-installable SVX30PM power modules to accommodate increased capacity up to 90kW with N+1 fault-tolerance</p> <p>Output Receptacles: Hardwire (3P, N, E)</p> <p>Input Receptacles: Set of two hardwire input connections enables 3-Phase Wye, 4 wire (3P, N, E) inputs from two separate power sources</p> <p>Output Circuit Breakers: MAIN and ALTERNATE AC inputs are each protected by 400A 3 pole magnetic breakers</p> <p>Overvoltage/Undervoltage Correction: Maintains continuous output in online mode, without using battery power, during overvoltages to 478V (Ph-Ph), reducing output to within 1% of selected 380/220V, 400/230V, 415/240V nominal output voltage; Maintains continuous output in online mode, without using battery power, during brownout/undervoltage conditions to 305V (Ph-Ph) at full load and to 208V (Ph-Ph) at 70% output load or less, increasing output to within 1% of selected 380/220V, 400/230V, 415/240V nominal output voltage</p> <p>Interference suppression: Suppression of electromagnetic / radio frequency interference Line/Battery transfer 0 ms</p> <p>Battery Runtime (Full Load 30kW): batteries support a full load of 60kW for 7 minutes and half load of 30kW for 17 minutes; Extended runtime is available with the addition of any number of supported external battery packs</p> <p>Expandable Battery: yes, up to 4x additional modules</p> <p>Battery Type: Hot-swappable, replaceable batteries</p> <p>Battery Life: up to 7 years</p> <p>Alarm signal: Audible Alarm Alarms signal for low-battery, overload, shutdown, bypass etc</p> <p>Connectivity: DB9; SNMP interface</p> <p>Management: Pre-installed WEBCARDLX network interface; Management software; LCD display with indication of mode of operation and real-time event log screen</p> <p>Warranty: 2 Years NBD onsite</p>	
		BDL5588XC	PL	Philips	<p>Video Wall Type I (3x3)</p>	<p>Philips Signage Solutions Video Wall Display</p> <p>Quantity of Display: 9 (3x3)</p> <p>Display: 55"; IPS; FHD LED technology</p> <p>Optimum resolution: 1920x1080@60Hz</p> <p>Video Wall resolution: up to 4K</p> <p>Contrast: 500000:1 (Dynamic Mode)</p>	

					<p>Brightness: 500 cd/m²</p> <p>Viewing angle: 178 (H)/178 (V)</p> <p>Bezel width: Top/Left: 2.3mm, Bottom/Right: 1.2mm</p> <p>VESA Mount: 400x400 mm</p> <p>Placement: Portrait, Landscape</p> <p>Reliability: 24/7 operation; MTBF 60,000 hour(s)</p> <p>Display Color: 1073M</p> <p>Picture enhancement: 3/2 - 2/2 motion pull down, 3D Combfilter, Motion compens. deinterlacing, Progressive scan, 3D MA deinterlacing, Dynamic contrast enhancement</p> <p>Screen saving functions: Pixel Shift, Low Bright</p> <p>Integrated Video Controller: built-in bay for media/video player with support Android OS</p> <p>Signal Loop Through: RS232, VGA, DisplayPort, DVI, IR Loophthrough</p> <p>Network controllable: RS232, RJ45, Card OPS RS232, One Wire (HDMI-CEC)</p> <p>Video input: Component (RCA), Composite (RCA), DVI-D, HDMI (x2), VGA (Analog D-Sub), DisplayPort (1.2)</p> <p>Video output: DisplayPort, DVI-I, VGA (via DVI-I)</p> <p>Audio input: 3.5 mm jack, Audio Left/Right (RCA)</p> <p>Audio output: Audio Left/Right (RCA), External speaker connector</p> <p>External control: IR (in/out) 3.5 mm jack, RJ45, RS232C (in/out) 2.5 mm jack</p> <p>Other connections: OPS</p> <p>Management control: IR; RS232; RJ45</p> <p>Quality of image and calibration: Color gamut min 72% of RGB; integrated comprehensive video wall calibration after montage of system; integrated burn-in protection that prevents fixed images from sticking on the screen; glare protection</p> <p>Display Protection: Heat and dust Resistant</p> <p>Accessories: Remote Control, AC Power Cord, RS232 cable, Edge alignment pins, Edge alignment plates</p> <p>Built-in speakers: 2x 10W (RMS)</p> <p>Energy saving functions: Ambient light sensor, Smart Power; Consumption (On mode) 110 W</p> <p>Wall Mount: Wall mounting system for displays will be support functionality when any element of the video wall will be serviced without removing other displays; Wall mounting system will be ensuring the installation of panels without any gaps</p> <p>Other: all necessary cables (power and interface) will be included in the set</p> <p>Warranty: 5 Years NBD On-site</p> <p>HP Z6 G4 Workstation</p> <p>Type: Dual Sockets Profeccional Workstation with support installation to RackCabinet via Rack Kit</p> <p>Processor: 2x Intel Xeon Silver 4110 (2.1 GHz base frequency, up to 3.0 GHz with Turbo Boost Technology, 11MB cache, 85W, Eight Cores)</p> <p>Chipset: Intel® C622 chipset</p> <p>Memory: 32GB (4x8GB) DDR4 2666 DIMM ECC REG; 12x DIMM slots; supported up to 384GB of memory</p> <p>Storage Drives: 2x HP Z Turbo Drive M.2 256GB SSD (3D MLC; Reliability 1.5M hours; Random Read/Write 250K/180K IOPS) in RAID 1; 1TB 3.5"HDD SATA 7200 rpm (256MB cache, Enterprise Class, reliability 24/7)</p> <p>Graphics Card: NVIDIA Quadro P4000 (8GB GDDR5; 243 GB/s; 256-bit; 4x DisplayPort 1.4; SYNC connector for Quadro® Sync II; 2x SLI connectors)</p> <p>Network Cards: HP i350-T2 PCIe Dual Port Gigabit NIC; HP Dual Port 10GBase-T NIC Module</p> <p>Interfaces: 10x USB 3.1 Gen1 (4x on a front panel); internal USB 3.1 Gen1 single-port header, internal USB 2.0 single-port header; internal USB 2.0 dual-port header; 4x RJ45; 3x Audio ports</p> <p>Expansion Slots: 5x PCI Express Gen3 x4; 2x PCI Express Gen3 x16; PCI Express Gen3 x8; 2x M.2 PCIe Gen 3 x4</p> <p>Power Supply: 1000W wide-ranging, active PFC, 90% Efficient, with 2X 6-pin graphics power cables</p> <p>Security: Side Panel Barrel Keylock; Infineon TPM 2.0 module; BIOS and Power-On password protection</p> <p>OS: Microsoft Windows 10 Pro 64-bit Workstation Plus Edition</p>	
	CTO Config	CZ	HP	Video/Graphics Controller		

		BDL5588XC	RU PL	FORSITE Philips	<p>Video Wall Type II (2x3)</p> <p>FORSITE MWCC 1.1 Video Wall Management Software: support control the output of Video Stream (Support for streaming and playing video incl. Youtube and similar services, IP cameras, WEB cameras of high resolution), HTML, Presentation MS PowerPoint, Images (jpg, .png without limiting the resolution of the file), PDF (viewing documents without limiting the size of the file), output of remote desktops via VNC protocol with management support, management of windows of running applications on the video wall; Software features: Move, delete and edit the size of the source window in real time; Snapping the main windows to the grid with possibility of editing; Preparation of grid templates, and independent editing of the grid in "advanced mode"; Possibility of making templates for the subsequent rapid display and management of them; Uploading content to the controller via the Web; Drag & Drop functionality; Work with last generation browsers on any modern platform (cross-platform); Password protection for client part of SW application; Remote switching of sources without using the remote control; Capture and playback of external sources (HDMI / DVI) in 1080p format; Technical Support incl. update of SW for 3 years</p> <p>Warranty: 5 Years NBD On-site</p> <p><u>Philips Signage Solutions Video Wall Display</u></p> <p>Quantity of Display: 6 (2x3)</p> <p>Display: 55"; IPS; FHD LED technology</p> <p>Optimum resolution: 1920x1080@60Hz</p> <p>Video Wall resolution: up to 4K</p> <p>Contrast: 500000:1 (Dynamic Mode)</p> <p>Brightness: 500 cd/m²</p> <p>Viewing angle: 178 (H)/178 (V)</p> <p>Bezel width: Top/Left: 2.3mm, Bottom/Right: 1.2mm</p> <p>VESA Mount: 400x400 mm</p> <p>Placement: Portrait, Landscape</p> <p>Reliability: 24/7 operation; MTBF 60,000 hour(s)</p> <p>Display Color: 1073M</p> <p>Picture enhancement: 3/2 - 2/2 motion pull down, 3D Combfilter, Motion compens. deinterlacing, Progressive scan, 3D MA deinterlacing, Dynamic contrast enhancement</p> <p>Screen saving functions: Pixel Shift, Low Bright</p> <p>Integrated Video Controller: built-in bay for media/video player with support Android OS</p> <p>Signal Loop Through: RS232, VGA, DisplayPort, DVI, IR Loopthrough</p> <p>Network controllable: RS232, RJ45, Card OPS RS232, One Wire (HDMI-CEC)</p> <p>Video input: Component (RCA), Composite (RCA), DVI-D, HDMI (x2), VGA (Analog D-Sub), DisplayPort (1.2)</p> <p>Video output: DisplayPort, DVI-I, VGA (via DVI-I)</p> <p>Audio input: 3.5 mm jack, Audio Left/Right (RCA)</p> <p>Audio output: Audio Left/Right (RCA), External speaker connector</p> <p>External control: IR (in/out) 3.5 mm jack, RJ45, RS232C (in/out) 2.5 mm jack</p> <p>Other connections: OPS</p> <p>Management control: IR; RS232; RJ45</p> <p>Quality of image and calibration: Color gamut min 72% of RGB; integrated comprehensive video wall calibration after montage of system; integrated burn-in protection that prevents fixed images from sticking on the screen; glare protection</p> <p>Display Protection: Heat and dust Resistant</p> <p>Accessories: Remote Control, AC Power Cord, RS232 cable, Edge alignment pins, Edge alignment plates</p> <p>Built-in speakers: 2x 10W (RMS)</p> <p>Energy saving functions: Ambient light sensor, Smart Power; Consumption (On mode) 110 W</p> <p>Wall Mount: Wall mounting system for displays will be support functionality when any element of the video wall will be serviced without removing other displays; Wall mounting system will be ensuring the installation of panels without any gaps</p> <p>Other: all necessary cables (power and interface) will be included in the set</p> <p>Warranty: 5 Years NBD On-site</p>	
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		CTO Config	CZ	HP	Video/Graphics Controller	<p><u>HP Z6 G4 Workstation</u></p> <p>Type: Dual Sockets Professional Workstation with support installation to Rack Cabinet via Rack Kit</p> <p>Processor: 2x Intel Xeon Silver 4110 (2.1 GHz base frequency, up to 3.0 GHz with Turbo Boost Technology, 11MB cache, 85W, Eight Cores)</p> <p>Chipset: Intel® C622 chipset</p> <p>Memory: 32GB (4x8GB) DDR4 2666 DIMM ECC REG; 12x DIMM slots; supported up to 384GB of memory</p> <p>Storage Drives: 2x HP Z Turbo Drive M.2 256GB SSD (3D MLC; Reliability 1.5M hours; Random Read/Write 250K/180K IOPS) in RAID 1; 1TB 3.5" HDD SATA 7200 rpm (256MB cache, Enterprise Class, reliability 24/7)</p> <p>Graphics Card: NVIDIA Quadro P4000 (8GB GDDR5; 243 GB/s; 256-bit; 4x DisplayPort 1.4; SYNC connector for Quadro® Sync II; 2x SLI connectors); NVIDIA SLI 3-Slot Graphics Connector</p> <p>Network Cards: HP i350-T2 PCIe Dual Port Gigabit NIC; HP Dual Port 10GBase-T NIC Module</p> <p>Interfaces: 10x USB 3.1 Gen1 (4x on a front panel); internal USB 3.1 Gen1 single-port header, internal USB 2.0 single-port header; internal USB 2.0 dual-port header; 4x RJ45; 3x Audio ports</p> <p>Expansion Slots: 5x PCI Express Gen3 x4; 2x PCI Express Gen3 x16; PCI Express Gen3 x8; 2x M.2 PCIe Gen3 x4</p> <p>Power Supply: 1000W wide-ranging, active PFC, 90% Efficient, with 2X 6-pin graphics power cables</p> <p>Security: Side Panel Barrel Keylock; Infineon TPM 2.0 module; BIOS and Power-On password protection</p> <p>OS: Microsoft Windows 10 Pro 64-bit Workstation Plus Edition</p> <p>FORSITE MWCC 1.1 Video Wall Management Software: support control the output of Video Stream (Support for streaming and playing video incl. Youtube and similar services, IP cameras, WEB cameras of high resolution), HTML, Presentation MS PowerPoint, Images (jpg, .png without limiting the resolution of the file), PDF (viewing documents without limiting the size of the file), output of remote desktops via VNC protocol with management support, management of windows of running applications on the video wall; Software features: Move, delete and edit the size of the source window in real time; Snapping the main windows to the grid with possibility of editing; Preparation of grid templates, and independent editing of the grid in "advanced mode"; Possibility of making templates for the subsequent rapid display and management of them; Uploading content to the controller via the Web; Drag & Drop functionality; Work with last generation browsers on any modern platform (cross-platform); Password protection for client part of SW application; Remote switching of sources without using the remote control; Capture and playback of external sources (HDMI / DVI) in 1080p format; Technical Support incl. update of SW for 3 years</p> <p>Warranty: 5 Years NBD On-site</p>
		BDL5588XC	PL	Philips	Video Wall Type III	<p><u>Philips Signage Solutions Video Wall Display</u></p> <p>Quantity of Display: 4 (2x2)</p> <p>Display: 55"; IPS; FHD LED technology</p> <p>Optimum resolution: 1920x1080@60Hz</p> <p>Video Wall resolution: up to 4K</p> <p>Contrast: 500000:1 (Dynamic Mode)</p> <p>Brightness: 500 cd/m²</p> <p>Viewing angle: 178 (H)/178 (V)</p> <p>Bezel width: Top/Left: 2.3mm, Bottom/Right: 1.2mm</p> <p>VESA Mount: 400x400 mm</p> <p>Placement: Portrait, Landscape</p> <p>Reliability: 24/7 operation; MTBF 60,000 hour(s)</p> <p>Display Color: 1073M</p> <p>Picture enhancement: 3/2 - 2/2 motion pull down, 3D Combfilter, Motion compens. deinterlacing, Progressive scan, 3D MA deinterlacing, Dynamic contrast enhancement</p> <p>Screen saving functions: Pixel Shift, Low Bright</p> <p>Integrated Video Controller: built-in bay for media/video player with support Android OS</p> <p>Signal Loop Through: RS232, VGA, DisplayPort, DVI, IR Loopthrough</p> <p>Network controllable: RS232, RJ45, Card OPS RS232, One Wire (HDMI-CEC)</p> <p>Video input: Component (RCA), Composite (RCA), DVI-D, HDMI (x2), VGA (Analog D-Sub), DisplayPort (1.2)</p>

		CTO Config	CZ	HP	Video/Graphics Controller Video output: DisplayPort, DVI-I, VGA (via DVI-I) Audio input: 3.5 mm jack, Audio Left/Right (RCA) Audio output: Audio Left/Right (RCA), External speaker connector External control: IR (in/out) 3.5 mm jack, RJ45, RS232C (in/out) 2.5 mm jack Other connections: OPS Management control: IR; RS232; RJ45 Quality of image and calibration: Color gamut min 72% of RGB; integrated comprehensive video wall calibration after montage of system; integrated burn-in protection that prevents fixed images from sticking on the screen; glare protection Display Protection: Heat and dust Resistant Accessories: Remote Control, AC Power Cord, RS232 cable, Edge alignment pins, Edge alignment plates Built-in speakers: 2x 10W (RMS) Energy saving functions: Ambient light sensor, Smart Power; Consumption (On mode) 110 W Wall Mount: Wall mounting system for displays will be support functionality when any element of the video wall will be serviced without removing other displays; Wall mounting system will be ensuring the installation of panels without any gaps Other: all necessary cables (power and interface) will be included in the set Warranty: 5 Years NBD On-site <u>HP Z4 G4 Workstation</u> Type: Single Socket Professional Workstation with support installation to RackCabinet via Rack Kit Processor: Intel Core™ i7-7820X (3.6 GHz base frequency, up to 4.5 GHz with Turbo Boost Technology, 11MB cache, 140W, Eight Cores) Chipset: Intel X299 chipset Memory: HP 16GB (2x8GB) DDR4-2666 nECC RAM; 8x DIMM slots; supported up to 384GB of memory Storage Drives: 2x HP Z Turbo Drive M.2 256GB SSD (3D MLC; Reliability 1.5M hours; Random Read/Write 250K/180K IOPS) in RAID 1; 1TB 3.5"HDD SATA 7200 rpm (256MB cache, Enterprise Class, reliability 24/7) Graphics Card: NVIDIA Quadro P1000 (4GB GDDR5; 80 GB/s; 128-bit; 4x DisplayPort 1.4) Network Cards: Intel® I219-V PCIe GbE LAN; Intel® Ethernet I210-T1 PCIe x1 Gb NIC; Intel® X550-T2 10GbE Dual Port NIC Interfaces: 9x USB 3.1 Gen1 (4x on a front panel); internal USB 3.1 Gen1 single-port header, internal USB 2.0 single-port header; internal USB 2.0 dual-port header; 4x RJ45; 3x Audio ports Expansion Slots: 2x PCI Express Gen3 x16; PCI Express Gen3 x8; 2x PCI Express Gen3 x4; M.2 PCIe Gen 3 x4 Power Supply: 1000W wide-ranging, active PFC, 90% Efficient, with 4X 6-pin graphics power cables Security: Side Panel Barrel Keylock; Infineon TPM 2.0 module; BIOS and Power-On password protection OS: Microsoft Windows 10 Pro 64-bit Workstation Edition FORSITE MWCC 1.1 Video Wall Management Software: support control the output of Video Stream (Support for streaming and playing video incl. YouTube and similar services, IP cameras, WEB cameras of high resolution), HTML, Presentation MS PowerPoint, Images (jpg, .png without limiting the resolution of the file), PDF (viewing documents without limiting the size of the file), output of remote desktops via VNC protocol with management support, management of windows of running applications on the video wall; Software features: Move, delete and edit the size of the source window in real time; Snapping the main windows to the grid with possibility of editing; Preparation of grid templates, and independent editing of the grid in "advanced mode"; Possibility of making templates for the subsequent rapid display and management of them; Uploading content to the controller via the Web; Drag & Drop functionality; Work with last generation browsers on any modern platform (cross-platform); Password protection for client part of SW application; Remote switching of sources without using the remote control; Capture and playback of external sources (HDMI / DVI) in 1080p format; Technical Support incl. update of SW for 3 years Warranty: 5 Years NBD On-site	
		CTO Config	CZ	HP	Operation Desktops <u>HP Elitedesk 800G4</u> Type: Business PC; SFF Processor: Last Generation Intel i5-8500 (3.0 GHz base frequency; up to 4.1 GHz max. turbo frequency; 9MB cache, 6 cores, 6 threads, 65W TDP, 14nm) Chipset: Intel® Q370 Memory: 8GB (1x 8GB) DDR4-2666, 4x DIMM slots; support up to 64GB	

					<p>Storage Devices: 2x 500GB 7200 rpm 3,5" SATA HDD</p> <p>Storage Controller: supported RAID 0/1; 3x SATA ports</p> <p>Graphics: Intel® UHD Graphics 630; AMD Radeon R7 430 2GB PCIe x16 Graphics Card with 2x Display ports (128-bit GDDR5)</p> <p>Connectivity: Intel® I219-LM Gigabit Network Connection; Intel Ethernet I210-T1 PCIe x1 Gb NIC</p> <p>Audio/Multimedia: Conexant CX20632 codec, 2 W internal speaker, universal audio jack, headset and headphone front ports (3.5 mm), multi-streaming capable</p> <p>Ports: 4x USB 2.0 (1x charging on a front panel); 4x USB 3.1 Gen2 (2x on a front panel); 2x USB Type-C 3.1 Gen2 (1x on a front panel); 2x USB 3.1 Gen1; 3x Audio port (1x on a front panel); 2x DisplayPort 1.2; RJ-45</p> <p>Slots: 1x M.2 PCIe x1-2230; M.2 PCIe x4-2280/2230 combo; 2x PCI Express v3.0 x1; 2x PCI Express v3.0 x16; PCI Express v3.0 x1 and x16 will be free</p> <p>Monitor: HP EliteDisplay Z27 (IPS with LED backlight; 3 sided Micro-Edge Bezel; 4K UHD (3840x2160); 27" diagonal size; 350 cd/m2; 1300:1 Static and 5mln:1 Dynamic; 8 ms RT; up to 99% sRGB CG; VA 178° (H)/178° (V); Surface Hardness 3H; HDMI 2.0; Display Port; Mini DisplayPort; 2x USB Type-C; Audio port; 3x USB 3.0 ports (all ports fast charging); Display height adjustment w/ up to 150mm; built-in cable-management; Picture-in-Picture and Picture-by-Picture supported; Security Lock Ready; VESA Mounting; Pivot rotation 90⁰, Swivel rotation 90⁰)</p> <p>Input Devices: HP USB Business Slim full size Keyboard with numeric pad (Eng/Rus factory engraved) and HP USB Laser Mouse</p> <p>Power Supply: 80 PLUS Platinum 180W active PFC, 91/93/90% efficient at 20/50/100% load</p> <p>Security: Trusted Platform Module (TPM) 2.0; SATA 0,1 port disablement (via BIOS); USB enable/disable (via BIOS); Support for chassis padlocks and cable lock devices; Power-On/Setup password (via BIOS); Master Boot Record Security; HP BIOS Protection; HP Client Security Suite Gen3 (HP Security Manager incl. Credential Manager and Password Manager, HP Drive Lock, Absolute Persistence Module), RAID configuration support</p> <p>BIOS & Manageability (for Windows OS): HP Sure Start Gen3, HP DriveLock HP Automatic DriveLock, BIOS Update via Network, Master Boot Record Security, Power On Authentication, Secure Erase, Absolute Persistence Module, Pre-boot Authentication, HP LAN-WLAN Protection, HP Driver Packs, HP SoftPaq Download Manager, HP System Software Manager, HP BIOS Config Utility, HP Client Catalog, LANDESK Management, HP Manageability & Integration Kit</p> <p>Options: HP Stereo Headset H2800; SFF Dust Filter</p> <p>OS: Microsoft Windows 10 Pro (64-bit)</p> <p>Warranty: 5Years (NBD) warranty</p>	
		2TB68A4	JP	HP		
		JL173A	CN	HPE	Incoming traffic network node	<p><u>HPE OfficeConnect 1850 48G 4XGT PoE+ 370W Switch</u></p> <p>Type: Rackmount 1U switch (total 2U of Node); Layer 2 PoE+ switches</p> <p>Total Q-ty of Ports for Node: 48x RJ-45 auto-negotiating 10/100/1000 PoE+ ports; 48x RJ-45 auto-negotiating 10/100/1000 ports; 8x RJ-45 1/10GBASE-T ports</p> <p>Total Switching Capacity of Node: 2x 176 Gbps</p> <p>Throughput of Node: up to 131 Mpps (64-byte packets) per every switch</p> <p>Connectivity: Auto-MDI/MDIX; IEEE 802.3X flow control; Loop protection; IEEE 802.3at Power over Ethernet; Auto PoE power configuration; PoE shut down mode; Auto port shut-down; Energy efficient cooling</p> <p>Quality of Service: Traffic prioritization; Broadcast control; IEEE 802.1p/Q</p> <p>Management: Simple Web management; SNMPv1, v2c; Port mirroring; Dual flash images; NTP; Manual network time configuration; Default DHCP client mode</p> <p>Security: SSL; Automatic denial-of-service protection; Management password</p> <p>Performance: Half- and full-duplex auto-negotiating capability on every port; IGMP snooping</p> <p>Layer 2 switching: VLAN support and tagging; Jumbo packet support</p> <p>Resiliency and high availability: IEEE 802.1D Spanning Tree Protocol and IEEE 802.1W Rapid Spanning Tree Protocol; Link aggregation</p> <p>Technical Support: Lifetime Software updates; 24x7 chat support with manufacturer</p> <p>Warranty: 5Years (NBD) warranty</p>
		JL319A	MX	HPE	Management network node	<p><u>Aruba 2930M 24G 1-slot Switch</u></p> <p>Type: Rackmount 1U switch (total 2U of Node); Layer 3 switches</p> <p>Total Q-ty of Ports for Node: 40x RJ-45 Autosensing 10/100/1000 ports; 8x Combo 10/100/1000BASE-T or 100/1000Mbps SFP Ports; 8x Smart Rate 1G/2.5G/5G/10G PoE+ ports</p>

					<p>Slots: 2x power slots per each switch; Uplink Module Slot and Stacking Module Slot per each switch</p> <p>Connectivity: Auto-MDI/MDIX; IEEE 802.3X flow control; Loop protection; IEEE 802.3at Power over Ethernet; Auto PoE power configuration; PoE shut down mode; Auto port shut-down; Energy efficient cooling</p> <p>Quality of Service: Traffic prioritization; Layer 4 prioritization; Class of Service (IEEE 802.1p priority tag based on IP address); Layer 3 protocol; TCP/UDP source and number of port</p> <p>Management: RMON, XRMON, and sFlow support; Dual flash images; Automatic configuration for mobile-first campus networks; Out-of-band Ethernet; management port; Automatically finds and fixes network problems; Unidirectional link detection service support</p> <p>Security: Web-based authentication; MAC-based authentication; Concurrent IEEE 802.1X, Web, and MAC authentication schemes; MAC Pinning; MAC address lockout; IEEE 802.1AE MACsec; TMP module; Dynamic ARP protection; DHCP protection; Private VLAN; SSL; ACLs; RADIUS/TACACS+</p> <p>Performance per every switch: 100Gbps Stacking Performance; 128Gbps Switching Capacity; Throughput 95.2Mpps; support Ring Stacking Topology; Ring topology; Virtualized Switching</p> <p>Layer 3 routing: Static IP routing; RIPv1, RIPv2, and RIPv3 routing; OSPFv2 / OSPFv3 protocols; Policy-based routing support</p> <p>Layer 3 services: DHCP server functionality support</p> <p>Stacking: both switches will be combine in the stack via Stacking Modules</p> <p>Resiliency and high availability: VRRP; IEEE 802.1s Multiple Spanning Tree support; LACP; support dual power supplies for redundancy</p> <p>Power Supplies: 2x Aruba X371 12VDC 250W 100-240VAC Power Supply per each switch</p> <p>Technical Support: Lifetime Software updates; 24x7 chat support with manufacturer</p> <p>Warranty: 5Years (NBD) warranty</p>	
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Semnata:

În calitate de: Director General

Ofertantul: **Fors-Computer SRL**
 Adresa: mun. Chisinau, str. Sfatul Tsarii, 18