

Specificații tehnice (F4.1)

Numărul procedurii de achiziție ocds-b3wdp1-MD-1564640059815 din 01.09.2019

Denumirea procedurii de achiziție: Echipament de rețea

N/o	Cod CPV	Denumirea bunurilor	Modelul articolului	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	8	9
1.	32420000-3	Lotul 1						
1.1		ACCES POINT	Ubiquiti UniFi AP AC Long Range, EU	USA	Ubiquiti	<ul style="list-style-type: none"> • Tip: Dual Band Wireless Access Point; dirijarea cu ajutorul Wireless Controller; Adaptive antenna gain and radiation patterns optimised for long links; Posibilitatea de montare pe tavan si perete cu toate materialele necesare in complet. • Specificatie tehnica: 2,4 GHz MIMO (Triple Chain 450 Mbps) + 5 Ghz MIMO (Dual Chain 867 Mbps); Antene integrate minim 3dBi; Suport: Multiple SSID, VLAN, QOS, WMM, Hotspot, PoE 24/48v. • Maximum TX Power: 2.4 GHz - 24 dBm; 5 GHz - 22 dBm • Porturi: (1) 10/100/1000 Ethernet Port • Performanta: Sa fie asigurate minim 50 conexiuni paralele. • Range: până la 183 de metri, in dependenta de mediu • Protocoale: 802.11 a/b/g/n/ac • Prețul bunului va include serviciile de instalare si configurare • Garanție: minim 24 luni 	<ul style="list-style-type: none"> • 802.11ac Long Range Access Point dual-band operation with 3x3 MIMO in the 2.4 GHz band and 2x2 MIMO in the 5 GHz band • Intuitive UniFi Controller Software • Maximum TX Power 2.4 GHz 5 GHz 24 dBm 22 dBm • 2.4 GHz Speed 450 Mbps; 5 GHz Speed 867 Mbps • Networking Interface: (1) 10/100/1000 Ethernet Port • Concurrent Clients: 50+ • Power Method 802.3af/A PoE 24V Passive PoE (Pairs 4, 5+; 7, 8 Return) • Antennas (1) Dual-Band Antenna, Tri-Polarity, 2.4 GHz: 3 dBi, 5 GHz: 3 dBi • Wi-Fi Standards 802.11 a/b/g/n/r/k/v/ac • Wireless Security WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES) • BSSID Up to 8 per Radio • Mounting Wall/Ceiling (Kits Included) • VLAN 802.1Q • Advanced QoS Per-User Rate Limiting • Guest Traffic Isolation Supported • WMM Voice, Video, Best Effort, and Background • Prețul bunului include serviciile de instalare si configurare • Garanție: 24 luni 	
1.2		ACCES POINT	Ubiquiti UniFi AC High Density (UAP-AC-HD)	USA	Ubiquiti	<ul style="list-style-type: none"> • Tip: 802.11ac Wave 2 Enterprise Wi-Fi Access Point; dirijarea cu ajutorul Wireless Controller; Posibilitatea de montare pe tavan si perete cu toate materialele necesare in complet; 	<ul style="list-style-type: none"> • 802.11ac Wave 2 Enterprise Wi-Fi Access Point • Intuitive UniFi Controller Software • Simultaneous Dual-Band 4x4 Multi-User MIMO 	

					<p>Beamforming; Radio Hardware Acceleration; Simultaneous Dual-Band 4x4 Multi-User MIMO</p> <ul style="list-style-type: none"> • Specificatie tehnica: 2,4 GHz MIMO (4x4 800 Mbps) + 5 Ghz MIMO (4x4 1733 Mbps); 2x Dual-Port, Dual-Polarity Antennas 2,4GHz 3 dBi each; 2x Dual-Port, Dual-Polarity Antennas 5GHz 4 dBi each; Suport: Multiple SSID, VLAN, Advanced QoS, WMM, Hotspot; Guest Traffic Isolation; 802.3at PoE+ 44to57VDC (PoE injector included) • Maximum TX Power: 2.4 GHz - 25 dBm; 5 GHz - 25 dBm • Porturi: 2x 10/100/1000 Ethernet Port • Performanta: Sa fie asigurate minim 200 conexiuni paralele. • Protocoale: 802.11 a/b/g/n/ac/ac-wave2 • Wireless Security: WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES) 802.11w/PMF • Prețul bunului va include serviciile de instalare si configurare • Garanție: minim 24 luni 	<ul style="list-style-type: none"> • 2.4 GHz Radio Rate 800 Mbps; 2.4 GHz MIMO 4x4 • 5 GHz Radio Rate 1733 Mbps; 5 GHz MIMO 4x4 • Networking Interface (2) 10/100/1000 Ethernet Ports • Power Method 802.3at PoE+ • Beamforming Supported • TX Power 2.4 GHz 5 GHz 6-25 dBm 6-25 dBm • Antennas: 2.4 GHz (2) Dual-Port, Dual-Polarity Antennas, 3 dBi each; 5 GHz (2) Dual-Port, Dual-Polarity Antennas, 4 dBi each • Concurrent Clients 200+ • Wi-Fi Standards 802.11 a/b/g/n/r/k/v/ac/ac-wave2 • Wireless Security WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES) 802.11w/PMF • BSSID Up to 8 per Radio • Mounting Wall/Ceiling (Kits Included) • VLAN 802.1Q • Advanced QoS Per-User Rate Limiting • Guest Traffic Isolation Supported • WMM Voice, Video, Best Effort, and Background • Prețul bunului include serviciile de instalare si configurare • Garantie: 24 luni 	
1.3	ACCES POINT	Ubiquiti UniFi AC Mesh Pro Access Point 802.11ac (UAP-AC-M-PRO)	USA	Ubiquiti	<ul style="list-style-type: none"> • Tip: Outdoor Dual Band Wireless Access Point; dirijarea cu ajutorul Wireless Controller; Posibilitatea de montare pe tavan si pol cu toate materialele necesare in complet; Carcasă cu rezistentă la apă. • Specificatie tehnica: 3x3 MIMO, 3x Dual-Band omni-directional Antennas, 8dBi; 802.3af PoE (PoE injector included); Suport:VLAN, Advanced QoS,Guest Traffic Isolation, WMM • Maximum TX Power: 2.4 GHz - 22 dBm; 5 GHz - 22 dBm • Porturi: 2x 10/100/1000 Ethernet Port • Performanta: Sa fie asigurate minim 100 conexiuni • Protocoale: 802.11 a/b/g/n/r/k/v/ac 	<ul style="list-style-type: none"> • 802.11AC AP High-Performance Wide-Area Wi-Fi • Intuitive UniFi Controller Software • Networking Interface (2) 10/100/1000 Ethernet Ports • Power Method 802.3af PoE (Supported Voltage Range: 44 to 57VDC) • Maximum TX Power 2.4 GHz 22 dBm 5 GHz 22 dBm • (3) Internal Dual-Band Antennas 8 dBi 3x3 MIMO technology • Wi-Fi Standards 802.11 a/b/g/n/r/k/v/ac • Wireless Security WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES) • BSSID Up to 8 per Radio 	

						<ul style="list-style-type: none"> • Range: până la 183 de metri, in dependenta de mediu • Wireless Security: WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES) • Prețul bunului va include serviciile de instalare si configurare • Garanție: minim 24 luni 	<ul style="list-style-type: none"> • Mounting Wall/Pole/Fast-Mount (Kits Included) • VLAN 802.1Q • Advanced QoS Per-User Rate Limiting • Guest Traffic Isolation Supported • WMM Voice, Video, Best Effort, and Background • Concurrent Clients 100+ • Operating Humidity 5 to 95% • Prețul bunului include serviciile de instalare si configurare • Garantie: 24 luni 	
1.4		Switch	Switch UniFi US-24-250W, 24-port	USA	Ubiquiti	<ul style="list-style-type: none"> • Tip: Rack-Mountable 24-port Gigabit PoE advanced smart managed switch with 2 GbE SFP ports • Networking Interfaces: (24) 10/100/1000 Mbps RJ45 Ethernet Ports; (2) 1 Gbps SFP Ethernet Ports • Management Interface: (1) RJ45 Serial Port Out-of-Band, Ethernet In-Band • Total Non-Blocking Throughput: 26 Gbps • Switching Capacity: 52 Gbps • Forwarding Rate: 38.69 Mpps • Maximum Power Consumption: 250W • PoE Support: PoE+ IEEE 802.3at/af, Passive PoE • MAC Address Table: 16384 • Power Method: 100-240VAC/50-60 Hz, Universal Input (power supply AC/DC, 250W DC included) • Advanced functionality: PoE setting per port; Operation mode (switching, mirroring, or aggregate) per port; Network/VLAN configuration; Jumbo frame and flow control configuration; Network settings; Storm control setting per port; Spanning tree configuration • Prețul bunului va include serviciile de instalare si configurare • Garanție: minim 24 luni 	<ul style="list-style-type: none"> • Tip: Rack-Mountable 24-port Gigabit PoE advanced smart managed switch with 2 GbE SFP ports • Networking Interfaces: (24) 10/100/1000 Mbps RJ45 Ethernet Ports; (2) 1 Gbps SFP Ethernet Ports • Management Interface: (1) RJ45 Serial Port Out-of-Band, Ethernet In-Band • Total Non-Blocking Throughput: 26 Gbps • Switching Capacity: 52 Gbps • Forwarding Rate: 38.69 Mpps • Maximum Power Consumption: 250W • PoE Support: PoE+ IEEE 802.3at/af, Passive PoE • MAC Address Table: 16384 • Power Method: 100-240VAC/50-60 Hz, Universal Input (power supply AC/DC, 250W DC included) • Advanced functionality: PoE setting per port; Operation mode (switching, mirroring, or aggregate) per port; Network/VLAN configuration; Jumbo frame and flow control configuration; Network settings; Storm control setting per port; Spanning tree configuration • Prețul bunului include serviciile de instalare si configurare • Garanție: 24 luni 	
2.	32420000-	Lotul 2						
2.1	3	Switch	Cloud Router Switch 326-24G-2S+RM with RouterOS L5,1U	Letonia	Mikrotik	<ul style="list-style-type: none"> • Tip: Switch cu management ; Rack mount carcasa; • Networking Interfaces: 24x 10/100/1000 Ethernet ports; 2x SFP+ port suport 1.25 Gb SFP si 10 Gb SFP+ 	<ul style="list-style-type: none"> • Tip: Switch cu management ; Rack mount carcasa; • Networking Interfaces: 24x 10/100/1000 Ethernet ports; 2x SFP+ port suport 1.25 Gb SFP si 10 Gb SFP+ 	

			rackmount enclosure			<ul style="list-style-type: none"> • Management Interface: 1x RJ45 serial port; • Specificatie tehnica: 26 port non blocking wire speed Switch Chip; Minimum 800 Mhz CPU; Minimum 512 MB RAM; Storage size minim 16MB; Passive PoE in 11-30V; • OS featuring: Non-blocking Layer 2 switching capacity, 16K host table, IEEE 802.1Q VLAN, suport pina la 4K simultan VLANs, Port isolation, Port security, Broadcast storm control, Port mirroring of ingress/egress traffic, Rapid Spanning Tree Protocol, Access Control List, neighbor discovery, SNMP v1, Web-based GUI, Telnet, SSH • Prețul bunului va include serviciile de instalare si configurare • Garantie minim 24 luni 	<ul style="list-style-type: none"> • Management Interface: 1x RJ45 serial port; • Specificatie tehnica: 26 port non blocking wire speed Switch Chip; Minimum 800 Mhz CPU; Minimum 512 MB RAM; Storage size minim 16MB; Passive PoE in 11-30V; • OS featuring: Non-blocking Layer 2 switching capacity, 16K host table, IEEE 802.1Q VLAN, suport pina la 4K simultan VLANs, Port isolation, Port security, Broadcast storm control, Port mirroring of ingress/egress traffic, Rapid Spanning Tree Protocol, Access Control List, neighbor discovery, SNMP v1, Web-based GUI, Telnet, SSH • Prețul bunului include serviciile de instalare si configurare • Garantie 24 luni 	
2.2		Switch	Cloud Router Switch 317-1G-16S+RM with RouterOS L6	Letonia	Mikrotik	<ul style="list-style-type: none"> • Tip: Switch cu management ; Rack mount carcasa; • Networking Interfaces: 16x SFP+ cu suport 1.25 Gb SFP si 10 Gb SFP+ (cu DDMI support); 1x 10/100/1000 Ethernet port • Management Interface: 1x RJ45 serial port • Specificatie tehnica: 16 port non blocking wire speed Switch Chip; Minimum 800 Mhz CPU; Minimum 1 Gb RAM; Storage size minim 16MB; • OS featuring: Non-blocking Layer 2 switching capacity, 16K host table, IEEE 802.1Q VLAN, suport pina la 4K simultan VLANs, Port isolation, Port security, Broadcast storm control, Port mirroring of ingress/egress traffic, Rapid Spanning Tree Protocol, Access Control List, neighbor discovery, SNMP v2/v3, Web-based GUI, Telnet, SSH • Power Method: 2x PSU; AC input range 100-240 V; Max power consumption 44 W • Prețul bunului va include serviciile de instalare si configurare • Garantie: minim 24 luni 	<ul style="list-style-type: none"> • Tip: Switch cu management ; Rack mount carcasa; • Networking Interfaces: 16x SFP+ cu suport 1.25 Gb SFP si 10 Gb SFP+ (cu DDMI support); 1x 10/100/1000 Ethernet port • Management Interface: 1x RJ45 serial port • Specificatie tehnica: 16 port non blocking wire speed Switch Chip; Minimum 800 Mhz CPU; Minimum 1 Gb RAM; Storage size minim 16MB; • OS featuring: Non-blocking Layer 2 switching capacity, 16K host table, IEEE 802.1Q VLAN, suport pina la 4K simultan VLANs, Port isolation, Port security, Broadcast storm control, Port mirroring of ingress/egress traffic, Rapid Spanning Tree Protocol, Access Control List, neighbor discovery, SNMP v2/v3, Web-based GUI, Telnet, SSH • Power Method: 2x PSU; AC input range 100-240 V; Max power consumption 44 W • Prețul bunului include serviciile de instalare si configurare • Garantie: 24 luni 	

2.3		Switch	Cloud Router Switch 328-4C-20S-4S+RM with RouterOS L5	Letonia	Mikrotik	<ul style="list-style-type: none"> • Tip: Switch cu management ; Rack mount carcasa; • Networking Interfaces: 20x SFP ports; 4x ETH/SFP combo ports; 4x SFP+ ports cu suport 1.25 Gb SFP si 10 Gb SFP+ (cu DDMI support) • Management Interface: 1x RJ45 serial port • Specificatie tehnica: 28 port non blocking wire speed switch chip; Minimum 800 Mhz CPU; Minimum 512 MB RAM; Storage size minim 16MB; • OS featuring: Non-blocking Layer 2 switching capacity; 16K host table; IEEE 802.1Q VLAN; Supports up to 4K simultaneous VLANs; Port isolation; Port security; Broadcast storm control; Port mirroring of ingress/egress traffic; STP / RSTP / MSTP; Access Control List; Neighbor discovery; SNMP; 10218-byte jumbo frames support; IGMP snooping; IEEE 802.3ad and static link aggregation; Web-based GUI, Telnet, SSH • Power Method: 2x PSU; AC input range 100-240 V; Max power consumption 43W • Prețul bunului va include serviciile de instalare si configurare • Garantie: minim 24 luni 	<ul style="list-style-type: none"> • Tip: Switch cu management ; Rack mount carcasa; • Networking Interfaces: 20x SFP ports; 4x ETH/SFP combo ports; 4x SFP+ ports cu suport 1.25 Gb SFP si 10 Gb SFP+ (cu DDMI support) • Management Interface: 1x RJ45 serial port • Specificatie tehnica: 28 port non blocking wire speed switch chip; Minimum 800 Mhz CPU; Minimum 512 MB RAM; Storage size minim 16MB; • OS featuring: Non-blocking Layer 2 switching capacity; 16K host table; IEEE 802.1Q VLAN; Supports up to 4K simultaneous VLANs; Port isolation; Port security; Broadcast storm control; Port mirroring of ingress/egress traffic; STP / RSTP / MSTP; Access Control List; Neighbor discovery; SNMP; 10218-byte jumbo frames support; IGMP snooping; IEEE 802.3ad and static link aggregation; Web-based GUI, Telnet, SSH • Power Method: 2x PSU; AC input range 100-240 V; Max power consumption 43W • Prețul bunului include serviciile de instalare si configurare • Garantie: 24 luni 	
2.4		Switch	Cloud Router Switch 212-1G-10S-1S+IN, desktop enclosure	Letonia	Mikrotik	<ul style="list-style-type: none"> • Switch cu management ; Rack mount carcasa; 10SFP ports; 1x SFP+ port suport 10 Gb SFP+, 1x RJ45 serial port; Minimum 400 Mhz CPU; Minimum 64 MB RAM; Dimensiunea de stocare minimă 16MB; OS featuring: Non-blocking Layer 2 switching capacity, 16K host table, IEEE 802.1Q VLAN, suport pina la 4K simultan VLANs, Port isolation, Port security, Broadcast storm control, Port mirroring of ingress/egress traffic, Spanning Tree Protocol/ Rapid Spanning Tree Protocol/ Mutiple Spanning Tree Protocol, Access Control List, neighbor discovery, SNMP , Web-based GUI, • Prețul bunului va include serviciile de instalare si configurare • Garantie: minim 24 luni 	<ul style="list-style-type: none"> • Switch cu management ; Rack mount carcasa; 10SFP ports; 1x SFP+ port suport 10 Gb SFP+, 1x RJ45 serial port; Minimum 400 Mhz CPU; Minimum 64 MB RAM; Dimensiunea de stocare minimă 16MB; OS featuring: Non-blocking Layer 2 switching capacity, 16K host table, IEEE 802.1Q VLAN, suport pina la 4K simultan VLANs, Port isolation, Port security, Broadcast storm control, Port mirroring of ingress/egress traffic, Spanning Tree Protocol/ Rapid Spanning Tree Protocol/ Mutiple Spanning Tree Protocol, Access Control List, neighbor discovery, SNMP , Web-based GUI, • Prețul bunului include serviciile de instalare si configurare • Garantie: 24 luni 	

2.5		SFP Transceiver	Pair of Bidi SFP 1.25G SC 5km	China	Do Networks Limited	<ul style="list-style-type: none"> SFP 1.25G Tx1310/Rx1550nm 5KM SC WDM SFP 1.25G Tx1550/Rx1310nm 5KM SC WDM Compatibil cu router-ul si switch-urile solicitate la Lotul 2 Garantie: minim 24 luni 	<ul style="list-style-type: none"> SFP 1.25G Tx1310/Rx1550nm 5KM SC WDM SFP 1.25G Tx1550/Rx1310nm 5KM SC WDM Compatibil cu router-ul si switch-urile MikroTik Garantie: 24 luni 	
2.6		SFP+ DAC, 1 m	S+DA0001 SFP+ 10G direct attach cable, 1m	Letonia	Mikrotik	<ul style="list-style-type: none"> Tip: SFP+ Direct Attached Copper Cable Lungimea: 1 m Acelasi producator ca si router-ul și switch-urile solicitate la Lotul 2 Garantie: minim 24 luni 	<ul style="list-style-type: none"> SFP+ direct attach cable, 1m Garantie: 24 luni 	
2.7		SFP+ DAC, 3 m	S+DA0003 SFP+ 10G direct attach cable, 3m	Letonia	Mikrotik	<ul style="list-style-type: none"> Tip: SFP+ Direct Attached Copper Cable Lungimea: 3 m Acelasi producator ca si router-ul și switch-urile solicitate la Lotul 2 Garantie: minim 24 luni 	<ul style="list-style-type: none"> SFP+ direct attach cable, 3m Garantie: 24 luni 	
2.8		SFP+ DAC, 5 m	S+AO0005 SFP+ 10G direct attach Active Optics cable, 5m	Letonia	Mikrotik	<ul style="list-style-type: none"> Tip: SFP+ Direct Attached Copper Cable Lungimea: 5 m Acelasi producator ca si router-ul și switch-urile solicitate la Lotul 2 Garantie: minim 24 luni 	<ul style="list-style-type: none"> SFP+ Active Optics direct attach cable, 5m Garantie: 24 luni 	
2.9		Router	RouterBOARD 4011iGS+ with 1U rackmount case	Letonia	Mikrotik	<ul style="list-style-type: none"> Tip: Ethernet Router Networking Interfaces: 10xGigabit Ethernet ports; 1x SFP+ port cu suport 1.25 Gb SFP si 10 Gb SFP+ Management Interface: 1x Serial port RJ45; Specificatie tehnica: CPU minim QuadCore 1.4 GHz per core; Minim 1 GB RAM; Storage size minim 512 MB; PCB temperature monitor; Voltage Monitor; Power Method: DC jack input Voltage 12-57 V, Max power consumption 33W; Passive PoE in; Passive PoE Out; Prețul bunului va include serviciile de instalare si configurare Garantie: minim 24 luni 	<ul style="list-style-type: none"> Tip: Ethernet Router Networking Interfaces: 10xGigabit Ethernet ports; 1x SFP+ port cu suport 1.25 Gb SFP si 10 Gb SFP+ Management Interface: 1x Serial port RJ45; Specificatie tehnica: CPU minim QuadCore 1.4 GHz per core; Minim 1 GB RAM; Storage size minim 512 MB; PCB temperature monitor; Voltage Monitor; Power Method: DC jack input Voltage 12-57 V, Max power consumption 33W; Passive PoE in; Passive PoE Out; Prețul bunului include serviciile de instalare si configurare Garantie: 24 luni 	

Semnat: _____

Numele, Prenumele: Cioban Alexei

În calitate de: Director

Ofertantul: IT-LAB GRUP SRL

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