

TECHNICAL SPECIFICATION FOR:

UPLB-S-101-10-19, SUPPLY AND DELIVERY OF BRANDED AND BRAND NEW SUPPLIES AND EQUIPMENT FOR
INTERNET CONNECTIONS

DATE OF PREBID CONFERENCE:

Wednesday, 16 October 2019 2:30 PM

DEADLINE FOR SUBMISSION OF BIDS:

Wednesday, 30 October, 2019 UNTIL 1:15 PM

OPENING OF BIDS:

Will follow shortly after the deadline of the submission of bids

LOT #	ITEM #	REQUIRED SPECIFICATIONS	OFFERED SPECIFICATIONS (write down detailed offered specifications)	REFERENCES (include supporting documents)	COMMENTS/ REMARKS (clarify inclusion/ exclusion)	EVALUATION
1	1	Branded and Brand New, Aruba 2530 8 PoE+ Switch (for existing network management)				
		Ports: 8 x RJ-45 autosensing 10/100 PoE+ ports				
		2 x dual-personality ports - each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T				
		IEEE 802.3u Type 100Base-Tx				
		IEEE 802.3ab 1000Base-T Gigabit Ethernet) or as a SFP slot (for use with SFP transceivers) ports				
		Memory and processor: ARM9E @ 800 Mhz, 128 MB flash, Packet buffer size: 1.5 MB dynamically allocated				
		256 MB DDR3 DIMM				
		Latency: 100 Mb Latency: < 1.3 μs				
		1000 Mb Latency: < 1.3 μs				
		Throughput: up to 4.1 Mpps				
		Switching capacity: 5.6 Gbps				
		PoE capability: 67 W				
		Stacking capabilities: Virtual; 16 switches				
		Management features: Aruba Central and Aruba AirWave Network Management				
		IMC—Intelligent Management Center				
		command-line interface				
		Web browser				
		Configuration Menu				

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		out-of-band management (serial RS-232C or Micro USB) IEEE 802.3 Ethernet MIB				
		Repeater MIB				
		Ethernet Interface MIB AirWave Network Management				
		Input voltage: 100 - 127 / 200 - 240 VAC, rated				
		Power Consumption: 76.7 W (maximum)				
		Heat dissipation: 29 BTU/hr (30.6 kJ/hr)				
		Minimum dimensions (H x W x D): 25.4 x 15.95 x 4.45 cm				
		Weight: 0.91 kg				
		Package Contents: Managed Switch, User Guide and Manual, Rack-Mounting Kit and powercord included				
		Warranty: 2 years on parts and services				
	2	Branded and Brand New Uninterrupted Power Supply				
		Output power capacity and Max Configurable Power (watts): 325Watts/650VA				
		Nominal Output Voltage: 230V				
		Output Frequency (sync to mains): 50/60Hz +/- 3Hz				
		Output Frequency (not synced): 50/60 Hz +/-1 Hz				
		Topology: Line Interactive				
		Waveform Type: Stepped approximation to a sinewave				

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		Transfer Time: 4ms typical, 6ms maximum				
		Nominal Input Voltage: 230V				
		Output Connections: (2) Universal Receptacle (Battery Backup)				
		Input frequency: 50/60 Hz +/- 3 Hz (auto sensing)				
		Input Connections: IEC-320 C14, NEMA 5-15P				
		Cord Length: 1.22meters				
		Input voltage range for main operations: 180 – 270 V				
		Input Breaker Capacity: 5 A Type of Input Protection Required:gL fuse				
		Number of Power Cords: 2pcs				
		Maximum Input Current: 5.0A				
		Battery type: Maintenance-free sealed Lead-Acid battery with suspended electrolyte; leakproof				
		Included Battery Modules: 1				
		Replacement Battery: APCRBC110				
		Typical recharge time: 4hour(s)				
		Expected Battery Life (years):2 – 4 years				
		Control panel: LED status display with On Line : On Battery				
		Audible Alarm: Alarm when on battery : distinctive low battery alarm : overload continuous tone alarm				
		Surge energy rating: 160 Joules				

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		Physical: Maximum Height: 141.0 mm; Maximum Width: 101.0 mm; Maximum Depth: 300.0 mm; Net Weight: 4.33 kg; Shipping Weight: 4.58 kg				
		Quick guide user's manual, power cord included; RoHS Compliant				
		Warranty: 1 year on parts and services				
2	1	Branded and Brand New WiFi Booster/Extender				
		Plug Type: AU				
		Interface: 1 * 10/100M Ethernet Port (RJ45)				
		Button: RE (Range Extender) Button, Reset Button				
		Power Consumption: About 3W				
		Antenna: 2 * internal				
		Wireless Standards: IEEE 802.11n, IEEE 802.11g, IEEE 802.11b				
		Dimensions (W x D x H): 4.3x 2.6 x 3.0in. (110.0 x 65.8 x 75.2mm)				
		Frequency: 2.4~2.4835GHz				
		Signal Rate:				
		11n: Up to 300Mbps (dynamic)				
		11g: Up to 54Mbps (dynamic)				
		11b: Up to 11Mbps (dynamic)				
		Reception Sensitivity				

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		270M: -68dBm@10% PER				
		130M: -68dBm@10% PER				
		108M: -68dBm@10% PER				
		54M: -68dBm@10% PER				
		11M: -85dBm@8% PER				
		6M: -88dBm@10% PER				
		1M: -90dBm@8% PER				
		Transmit Power < 20 dBm (EIRP)				
		Wireless Modes Range Extender				
		Wireless Functions WMM (Wi-Fi Multimedia)				
		Wireless MAC Address Filtering				
		Wireless Statistic				
		Domain Login Function				
		Wireless Security: 64/128/152-bit WEP				
		WPA-PSK / WPA2-PSK				
		Certification CE, RoHS				
		Package Contents 300Mbps Universal Wi-Fi Range Extender TL-WA850RE				
		RJ-45 Ethernet Cable				

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		Resource CD				
		Quick Installation Guide				
		System Requirements Microsoft® Windows® 98SE, NT, 2000, XP, Vista or Windows 7, 8, 10, Mac® OS, NetWare®, UNIX® or Linux.				
		Environment Operating Temperature: 0°C~40°C (32°F~104°F)				
		Storage Temperature: -40°C~70°C (-40°F~158°F)				
		Operating Humidity: 10%~90% non-condensing				
		Storage Humidity: 5%~90% non-condensing, Warranty: 1 year on parts and services				
3	1	Branded and Brand New 8-port Gigabit managed PoE+ switch				
		Ports and Slots: 8 RJ-45 autosensing 10/100/1000, PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+);				
		Media Type: Auto-MDIX;				
		Duplex:				
		10BASE-T/100BASE-TX: half or full;				
		1000BASE-T: full only 2 dual-personality ports;				
		each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100BaseTX; IEEE 802.3ab1000Base-T Gigabit Ethernet) or as a SFP slot (for use with SFP transceivers) 1 dual-personality (RJ-45 or USB micro-B) serial console port				
		Memory:				

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		ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM;				
		packet buffer size: 1.5 MB dynamically allocated				
		Performance: IPv6 Ready Certified, up to 14.8 Mpps (64-byte packets) throughput, 20 Gbps switching capacity				
		Management:				
		Aruba Central and Aruba AirWave Network Management;				
		IMC—Intelligent Management Center;				
		command-line interface;				
		Web browser;				
		configuration menu;				
		out-of-band management (serial RS-232C or Micro USB);				
		IEEE 802.3 Ethernet MIB;				
		Repeater MIB;				
		Ethernet Interface MIB AirWave Network Management				
		Warranty: Limited Lifetime Warranty				
	2	Branded and Brand New 24-port Gigabit managed switch				
		Ports & Slots: 24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T);				
		Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 fixed Gigabit Ethernet SFP ports				

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		1 dual-personality (RJ-45 or USB micro-B) serial console port				
		Processor:				
		ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM;				
		packet buffer size: 1.5 MB dynamically allocated				
		Mounting: Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); Horizontal surface mounting; Wall mounting				
		Performance: IPv6 Ready Certified, 56 Gbps switching capacity, up to 41.6 Mpps (64-byte packets) throughput				
		Max. Heat Dissipation: 164 BTU/hr (173.02 kJ/hr)				
		Management:				
		Aruba Central and Aruba AirWave Network Management;				
		IMC—Intelligent Management Center;				
		command-line interface;				
		Web browser;				
		configuration menu;				
		out-of-band management (serial RS-232C or Micro USB);				
		IEEE 802.3 Ethernet MIB;				
		Repeater MIB;				
		Ethernet Interface MIB AirWave Network Management				
		Warranty: Limited Lifetime Warranty				

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	3	Branded and Brand New 48-port managed switch				
		I/O ports and slots: 48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T);				
		Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 fixed Gigabit Ethernet SFP ports 1 dual-personality (RJ-45 or USB micro-B) serial console port				
		Processor: ARM9E @ 800 MHz, 128 MB flash, 256 MB DDR3 DIMM; packet buffer size: 3 MB dynamically allocated				
		Mounting & Enclosure: Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); Horizontal surface mounting; Wall mounting				
		Management: Aruba Central and Aruba AirWave Network Management; IMC—Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB AirWave Network Management				
		Performance: 100 Mb Latency < 7.4 μs (LIFO 64-byte packets), 1000 Mb Latency < 2.3 μs (LIFO 64-byte packets)				
		Throughput: up to 77.3 Mpps (64-byte packets)				
		Switching Capacity: 104 Gbps				
		MAC address table size: 16000 entries				
		Maximum heat dissipation 203 BTU/hr (214.17 kJ/hr)				
		Dimensions: 17.44 (w) x 10.00 (d) x 1.75 (h) in (44.3 x 25.4 x 4.45 cm) (1U height)				

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		Warranty: Limited Lifetime				
	4	Branded and Brand New 1U Rack Server				
		Processor: Intel Xeon Silver 4110 2.1G, 8C/16T, 9.6GT/s , 11M Cache, Turbo, HT (85W)				
		Memory: 16GB RDIMM, 2666MT/s, Dual Rank (16 DIMM slots)				
		Network Controller: Intel X520 DP 10Gb DA/SFP+ Server Adapter, Full Height, CusKit,				
		Dual-Port 1GbE On-Board LOM				
		Storage Controller: PERC H730P+ RAID Controller, 2GB NV Cache, Adapter, Low Profile				
		Hard Drive: 4 x 1TB 7.2K RPM NLSAS 12Gbps 512n 2.5in Hot-plug Hard Drive				
		Optical Drive: DVD+/-RW, SATA, Internal				
		Power Supply: Single, Hot-Plug Power Supply (1+0), 550W				
		2nd PSU: Kit - Hot-plug Power Supply, 550W				
		Management: iDRAC9,Enterprise				
		Form Factor: 1U Rack Server, ReadyRails Sliding Rails With Cable Management Arm				
		Warranty: 3Yr ProSupport Next Business Day Onsite Service				
	5	Branded and Brand New Transceiver				
		Aruba J4859D 1G SFP LC LX 10km SMF XCVR (with existing ARUBA Switches)				

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	6	Branded and Brand New Point to Point Radio Link NanoBeam 5AC Gen2 with Ethernet Surge Protector				
4	1	Branded and Brand New 24-port gigabit managed switch with 4 SFP slots I/O Ports: 24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 4 fixed Gigabit Ethernet SFP ports 1 dual-personality (RJ-45 or USB micro-B) serial console port Dimensions 17.44 (w) x 10.00 (d) x 1.75 (h) in (44.3 x 25.4 x 4.45 cm) (1U height) Throughput: up to 41.6 Mpps (64-byte packets) Switching Capacity: 56 Gbps Management: Aruba Central and Aruba AirWave Network Management; IMC—Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB AirWave Network Management Warranty: Limited Lifetime				

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	2	Branded and Brand New 24-port gigabit managed switch with 2 SFP slots				
		I/O ports: 24 RJ-45 autosensing 10/100 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX); Duplex: half or full 2 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T);				
		Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 2 fixed Gigabit Ethernet SFP ports 1 dual-personality (RJ-45 or USB micro-B) serial console port				
		Dimensions: 17.40 (w) x 9.70 (d) x 1.75 (h) in (44.2 x 24.64 x 4.45 cm) (1U height)				
		Throughput: up to 9.5 Mpps (64-byte packets)				
		Switching: 12.8 Gbps				
		MAC Address Table Size: 16000 entries				
		Management: Aruba Central and Aruba AirWave Network Management; IMC—Intelligent Management Center; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C or Micro USB); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB AirWave Network Management				
		Warranty: Limited Lifetime				
	3	Branded and Brand New Cat5e (305 m) communication cable (1 box) for indoor cabling				
		24 AWG solid bare copper conductors, non-plenum, Polyolefin insulation, twisted pairs, see color code chart (below), PVC jacket (grey)				
		Insulation Material: PO – Polyolefin				
		Outer Jacket Material: PVC - Polyvinyl Chloride				

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		Verified to UL Performance Category Program (must contain sticker & number)				
	4	Branded and Branded SFP (mini-GBIC) transceiver module - GigE - 1000Base				
		Termination: LX to LC				
		Gigabit connection for single-mode up to 6.2 miles				
		Dependency on Aruba managed switch				
		Dimensions: 4 x 2.5 x 2 inches				
		Warranty: at least Manufacturer's 1-year				
	5	Branded and Brand New 2-meter fiber patch cord (SC to LC connection) for single mode (yellow)				
5	1	Branded and Brand New Manage Gigabit Switch 2530-24G Switch				
		24 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 000BASE-T);				
		Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only				
		4 fixed Gigabit Ethernet SFP ports				
		Limited Lifetime Warranty				

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	2	Branded and Brand New Manage Gigabit Switch 2530-8G Switch				
		8 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T);				
		Media Type: Auto-MDIX;				
		Duplex: 10BASE-T/100BASE-TX: half or full;				
		1000BASE-T: full only				
		2 dual-personality ports;				
		each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-Tx; IEEE 802.3ab 1000Base-T Gigabit Ethernet) or as a SFP slot (for use with SFP transceivers) ports.				
		Limited Lifetime Warranty				
	3	UTP Cable Category 5e Cat 5E Cable UTP, 305m/box				

Note: Please fill-up applicable columns.

Signature of Representative: _____

Name of Representative: _____

Position: _____

Company: _____

Address: _____

Telephone/ Fax: _____

Email: _____

End-user: _____

Signature over Printed Name