

Technical Specifications & Compliance Sheet

Item no. 1	Serial No.	Detailed Technical Specification	Bidder Offer
Manageable Switch	1	Brand: Mention by the bidder Model: Mention by the bidder Industry Recommenadations - The proposed solution must be positioned in the Wired and Wireless LAN Access Infrastructure segment of the Gartner Magic Quadrant for the last Five consecutive years.	Brand: TP-LINK Model: SG5428XMPP
	2	Type - Managed Layer 3	Yes
	3	Form Factor -Rackmount	Yes
	4	Interface - 24× 10/100/1000 Mbps RJ45 Ports (8× PoE++, 16× PoE+) 4× 1/10 Gbps SFP+ Slots** 1× USB 2.0 Port 1× RJ45 Console Port 1× USB Type-C Console Port"	• 24× 10/100/1000 Mbps RJ45 Ports (8× PoE++, 16× PoE+) • 4× 1/10 Gbps SFP+ Slots** • 1× USB 2.0 Port • 1× RJ45 Console Port • 1× USB Type-C Console Port
	5	Fan Quantity - 3	3
	6	PoE Standard - 802.3af/at/bt compliant	Standard: 802.3af/at/bt compliant
	7	PoE Power Budget - 500W	Power Budget: 500W*
	8	Switching Capacity - 128 Gbps	128 Gbps per Unit
	9	Forwarding Rate - 95.23 Mpps	95.23 Mpps
	10	MAC Address Table - 16K	16 K
	11	Packet Buffer - 12 Mbit	95.23 Mpps
	12	Jumbo Frame - 9 KB	9 KB
	13	VLAN - Max 4K VLAN Group (802.1q VLAN) 802.1Q Tagged VLAN MAC VLAN Entries: 60 Multicast VLAN Management VLAN VLAN VPN (QinQ): Max 256 entries GVRP Protocol VLAN: Protocol Template 16, Protocol VLAN 12 entries	• Max 4K VLAN Group (802.1q VLAN) • 802.1Q Tagged VLAN • MAC VLAN Entries: 60 • Multicast VLAN • Management VLAN • VLAN VPN (QinQ): Max 256 entries • GVRP • Protocol VLAN: Protocol Template 16, Protocol VLAN 12 entries

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		Voice VLAN Private VLAN"	• Voice VLAN • Private VLAN
	14	ZTP - Should support Zero-Touch Provisioning without Unboxing	Yes
	15	Certifications - CE, FCC, RoHS	Yes
	16	Manufacture Authorization Certificate (MAL) - OEM Manufacture Authorization Certificate should be submitted by bidder	Yes
	17	Warranty Certificate - OEM Warranty Certificate should be submitted by bidder	Yes
	18	Warranty - Minimum 3 Year Manufacturer Warranty	3 Years

Item 2	Serial No.	Detailed Technical Specification	Bidder Offer
Access Point (AP)	1	Brand: Mention by the bidder Model: Mention by the bidder Industry Recommendations - The proposed solution must be positioned in the Wired and Wireless LAN Access Infrastructure segment of the Gartner Magic Quadrant for the last Five consecutive years.	Brand:TP-LINK Model: EAP723
	2	Wi-Fi Radios - Dedicated Dual-radio	Yes
	3	Coverage Range - 140m ² (1500 ft ²) at 360° Direction	1500 ft ² (140m ²)*
	4	SSIDs - Multiple SSIDs (Up to 16 SSIDs, 8 for each band)	Yes
	5	Concurrent Clients - 250+	Yes
	6	Network Interfaces - 1x2.5 Gigabit Ethernet Port	1× 2.5G Ethernet Port
	7	MIMO Operation - 2x2 MU-MIMO DL	Yes
	8	OFDMA Operation - UL/DL OFDMA	Yes
	9	Wi-Fi Standards - IEEE 802.11 a/b/g/n/ac/ax/be	IEEE 802.11 a/b/g/n/ac/ax/be
	10	Load balancing - Should support Load balancing during smart Roaming	Yes
	11	MLO (multi link Operation) - 2.4 GHz+5 GHz	Yes
	12	Aggregate Throughput - Up to 5012 Mbps (688 Mbps (2.4 GHz) + 4324 Mbps (5 GHz))	688 Mbps (2.4 GHz) + 4324 Mbps (5 GHz)

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	13	WLAN features – MLO 4K-QAM Seamless Roaming MU-MIMO EHT240 Mesh OFDMA Load Balance Band Steering Beamforming Airtime Fairness Multiple SSIDS:16(8 on each band) Wireless Schedule Reboot Schedule QoS(WMM) Rate Limit RADIUS Accounting MAC Authentication	• MLO[‡] • 4K-QAM[‡] • Seamless Roaming • 240 MHz Bandwidth[‡] • Mesh[△] • OFDMA[‡] • Load Balance • Band Steering • Beamforming • Airtime Fairness • Multiple SSIDS:16(8 on each band) • Wireless Schedule • Reboot Schedule • QoS(WMM) • Rate Limit • Static IP/Dynamic IP • RADIUS Accounting • MAC Authentication
	14	Roaming - ? 802.11 k 802.11v 802.11r AI Roaming"	•802.11 k •802.11v •802.11r •AI Roamin
	15	Operating Modes - AP MODE, MESH MODE	Yes
	16	Security features - Captive Portal Authentication Access Control Maximum number of MAC Filter: 4,000 Wireless Isolation Between Clients VLAN Rogue AP Detection 802.1X Authentication ACL PPSK without Radius PPSK with Radius (Generic Radius with bound MAC/EKMS/Generic Radius with unbound MAC) WPA-Personal/Enterprise, WPA2- Personal/Enterprise, WPA3-Personal/Enterprise	• Captive Portal Authentication[△] • Access Control • Maximum number of MAC Filter: 4,000 • Wireless Isolation Between Clients • VLAN • Rogue AP Detection • WPA-Personal/Enterprise, WPA2-Personal/Enterprise, WPA3-Personal/Enterprise
	17	ZTP - Should support Zero-Touch Provisioning without Unboxing	Yes
	18	Mounting - Ceiling/Wall mount (Kits included)	Yes
	19	Centralized Management - Should support Cloud Controller, Software Controller, Web UI, Mobile App, and Hardware Controller	Yes

	20	Device Management - Should support Hybrid Cloud (On premises + Cloud)	Yes
	21	Certifications - CE, FCC, RoHS, IC	CE, FCC, RoHS, IC
	22	Manufacture Authorization Certificate (MAL) - OEM Manufacture Authorization Certificate should be submitted by bidder	Yes
	23	Warranty Certificate - OEM Warranty Certificate Certificate should be submitted by bidder	Yes
	24	Manufacturer Warranty - 3 Years	3 Years

Item 3	Serial No.	Detailed Technical Specification	Bidder Offer
Wi-Fi Controller	1	Brand: Mention by the bidder Model: Mention by the bidder Industry Recommendations - The proposed solution must be positioned in the Wired and Wireless LAN Access Infrastructure segment of the Gartner Magic Quadrant for the last Five consecutive years.	Brand:TP-LINK Model: OC400
	2	Hardware - Processor : Quad-Core A72 @ 2.2 GHz Memory Information : 8 GB DDR4 Storage : 4 MB Nor Flash; 32 GB eMMC SFP+ Port : 2× 1/10G SFP+ RJ45 Port : 4× 10/100/1000 Mbps Ethernet Ports USB Port : 2× USB 3.0 Console : 1× RJ45 Console Port Redundant Power Supplies : 2 internal fixed Power Supplies	Yes
	3	System Management - Multi-Site Management Multi-tenant Management (Role/Site/Device Privileges) Migration (Site Migration/Controller Migration) Should support Account Management Minimum Number of Sites : 95 Minimum Number of Accounts : 1000 Minimum Number of Vouchers : 60000 Minimum Number of Local Users : 60000 Minimum Simultaneously Used VLANs : 4,090 per site	Maximum Number of Sites 100 Maximum Number of Accounts 1,000 Maximum Number of Local Accounts 500 Maximum Number of Cloud Accounts 500 Maximum Number of Vouchers 60,000 Maximum Number of Local Users

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			60,000 Maximum Simultaneously Used VLANs 4,090 per site
4	Security - Network Security (ACL/URL Filtering/Attack Defense) Transmission (Routing/NAT/Session Limit/Bandwidth VPN (SSL/Wireguard/IPSec/L2TP/PPTP/OpenVPN) Portal (Voucher/Local User/SMS/RADIUS/ External Portal 802.1x RADIUS (Authentication/MAC Auth/Accounting)	Yes	
5	Device Management - Device Automatic Discovery Batch configuration Online upgrade Reboot Schedule PoE Schedule WLAN Scheduler SNMP Should support Hybrid Cloud (On premises + Cloud) Should support Zero-Touch Provisioning without Unboxing	Yes	
6	Monitoring - Dashboard (Custom Dashboard) Network topology Network Map Devices List (Custom Table) Clients List (Custom Table) Insights (Known Clients/Past Connections/Past Portal Authorizations/Rogue APs) Logs (Alerts/Events/Custom Notifications)		• DPI • IPS/IDS • Dashboard (Custom Dashboard) • Statistics (Performance/Switch Stats) • Network topology • Network Map • Devices List (Custom Table) • Clients List (Custom Table) • Insights (Known Clients/Past Connections/Past Portal Authorizations/Rogue APs) • Logs (Alerts/Events/Custom Notifications)

	7	Others - Certifications: CE, FCC, RoHS OEM Manufacture Authorization Certificate should be submitted by bidder OEM Warranty Certificate should be submitted by bidder Manufacturer Warranty Minimum 3 Years	CE, FCC, RoHS Yes Warranty Minimum 3 Years
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Item- 4 UTP CAT6 Cable

SI NO	Item Description	Technical Specifications	Bidder Response
1	Brand	To be mentioned by the bidder	Comscope
2	Model	To be mentioned by the bidder	2-1427215-4
3	Country of Origin	To be mentioned by the bidder	USA
4	Country of Manufacturer	To be mentioned by the bidder	USA/China
6	Cable Category	Cat6 U/UTP Unshielded Copper Cable, LSZH, 305m/Box	Yes
7	Standards/Compliance	• ISO/IEC 11801	Yes
		• ANSI/TIA/EIA-568.2-D	Yes
		• IEC 61156-5	Yes
		• EN50399	Yes
		• EN50173-01	Yes
8	Conductor Material	High-quality, oxygen-free copper (OFC) for superior conductivity	Yes
9	Gauge	23 AWG (0.57±0.02mm) for reduced signal attenuation over long distances	Yes
10	Jacket Material	Standard LSZH	Yes
11	Transmission Performance	Supports Gigabit Ethernet (1000BASE-T) and 10 Gigabit Ethernet (10GBASE-T) at this distance.	Yes
12	Frequency Range	Up to 500 MHz or higher.	Yes
13	Pairing and Wiring	Conforms to T568A and T568B wiring standards for easy and universal installation.	Yes
		Each conductor pair is color-coded for straightforward identification.	Yes
14	Pulling Strength	Designed with sufficient pulling strength to handle long-distance installations and minimize cable damage during installation.	Yes
15	Cable Reel or Drum	For such a long run, consider using cable reels or drums to prevent cable tangling and facilitate installation.	Yes

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16	Compliance and Certification	• Compliance: Meets relevant industry standards and ensures it complies with local regulations for data cabling.	Yes
		• UL Listed: UL (Underwriters Laboratories) Listed for safety and compliance.	Yes

Signature:	
Name:	<i>Sabbir Hossain (NID:1485404204)</i>
In the capacity of:	<i>Senior Manager; Govt. & Strategic Business, Axentec PLC</i>

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