Allied Telesis

Switches **PRODUCT INFORMATION**

x310 Series **STACKABLE ACCESS SWITCHES**

The Allied Telesis x310 Series Layer 3 stackable access switches offer an impressive set of features in a high-value package, ideal for applications at the network edge.

The Allied Telesis x310 Series provide a high performing and scalable access solution for today's networks. With a choice of 24-port and 48-port 10/100BASE-T versions with Gigabit uplinks, Power over Ethernet (PoE), plus the ability to stack up to four units, the x310 Series is perfect for demanding applications at the edge of enterprise networks.

Manageable

The x310 runs the advanced AlliedWare Plus[™] fully featured Operating System delivering a rich feature set and an industry-standard Command Line Interface (CLI). The industry-standard CLI reduces training requirements and is consistent across all AlliedWare Plus devices, simplifying network management.

The built-in, web-based Graphical User Interface (GUI) is an easy-to-use and powerful management tool. With comprehensive monitoring facilities and the ability to view a virtual chassis as a single entity, the GUI is an essential part of network management.



Meeting the increased management requirements of modern converged networks, Allied Telesis Management Framework (AMF) automates everyday tasks including configuration management. The complete network can be managed as a single virtual device with powerful centralized management features. Growing the network can be accomplished with plug-and-play simplicity, and network node recovery is fully zero-touch.

Reliable

The x310 was designed with reliability in mind, to guarantee the continued delivery of essential services. With the ability to stack up to four devices, maintenance and reconfiguration do not affect network uptime.

Secure

Advanced security features protect the network from the edge to the core. Unprecedented control over user access is provided with Network Access Control (NAC), to mitigate threats to network infrastructure. This ensures the network is accessed only by known users and devices, as each user's adherence to network security policies is checked. Secure access can also be provided for guests.





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> A secure network environment is guaranteed, with powerful control over network traffic types, secure management options, and other multilayered security features built right into the x310 Series switches.

AlliedWare Plu

Future-proof

A future-proof network is ensured with the flexibility of the x310 Series, coupled with the ability to stack multiple units. All x310 models come with a comprehensive IPv6 feature set as standard, to ensure they are ready for future traffic demands.

ECO friendly

The x310 supports Energy Efficient Ethernet (EEE), which automatically reduces the power consumed by the switch whenever there is no traffic on a port. This sophisticated feature can significantly reduce your operating costs, by reducing the power requirements of the switch and any associated cooling equipment.

Features

- » Supported by AMF
- » Stack up to 4 units with VCStack
- » Create resilient rings with EPSRing
- » Save power with Energy Efficient Ethernet (EEE)

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VCStack™

Key Features

VCStack

» Create a VCStack of up to four units with 4 Gbps of stacking bandwidth to each unit. Stacking links are connected in a ring so each device has dual connections to further improve resiliency. VCStack provides a highly available system where network resources are spread out across stacked units, reducing the impact if one of the units fails. Aggregating switch ports on different units across the stack provides excellent network resiliency.

Allied Telesis Management Framework (AMF)

» Allied Telesis Management Framework (AMF) is a sophisticated suite of management tools that provide a simplified approach to network management. Common tasks are automated or made so simple that the every-day running of a network can be achieved without the need for highly-trained, and expensive, network engineers. Powerful features like centralized management, auto-backup, auto-upgrade, autoprovisioning and auto-recovery enable plug-and-play networking and zero-touch management.

Ethernet Protection Switching Rings (EPSRing)

» EPSRing allows several x310 switches to form a protected ring capable of recovery within as little as 50ms. This feature is perfect for high performance and high availability in enterprise networks.

Industry-leading Quality of Service (QoS)

» Comprehensive low-latency wire-speed QoS provides flow-based traffic management with full classification, prioritization, traffic shaping and min/max bandwidth profiles. Enjoy boosted network performance and guaranteed delivery of business-critical Ethernet services and applications. Time-critical services such as voice and video take precedence over non-essential services such as file downloads, maintaining responsiveness of Enterprise applications.

Loop protection

- » Thrash limiting, also known as rapid MAC movement, detects and resolves network loops. It is highly user-configurable - from the rate of looping traffic to the type of action the switch should take when it detects a loop.
- » With thrash limiting, the switch only detects a loop when a storm has occurred, which can potentially cause disruption to the network. To avoid this, loop

detection works in conjunction with thrash limiting to send special packets that the switch listens for. If a port receives a special packet, you can choose to disable the port, disable the link, or send an SNMP trap.

Power over Ethernet Plus (PoE+)

» With PoE, a separate power connection to media endpoints such as IP phones and wireless access points is not necessary. PoE+ reduces costs and provides even greater flexibility, providing the capability to connect devices requiring more power (up to 30 Watts)—for example pan, tilt and zoom (PTZ) security cameras.

Link Layer Discovery Protocol – Media Endpoint Discovery (LLDP – MED)

» LLDP-MED extends LLDP basic network endpoint discovery and management functions. LLDP-MED allows for media endpoint specific messages, providing detailed information on power requirements, network policy, location discovery (for Emergency Call Services) and inventory.

Voice VLAN

» Voice VLAN automatically separates voice and data traffic into two different VLANs. This automatic separation places delay-sensitive traffic into a voice dedicated VLAN, which simplifies QoS configurations.

sFlow

» sFlow is an industry standard technology for monitoring high speed switched networks. It provides complete visibility into network use, enabling performance optimization, usage accounting/billing, and defense against security threats. Sampled packets sent to a collector ensure it always has a real-time view of network traffic.

Dynamic Host Configuration Protocol (DHCP) Snooping

» DHCP servers allocate IP addresses to clients, and the switch keeps a record of addresses issued on each port. IP source guard checks against this DHCP snooping database to ensure only clients with specific IP and/or MAC address can access the network. DHCP snooping can be combined with other features, like dynamic ARP inspection, to increase security in layer 2 switched environments, and also provides a traceable history, which meets the growing legal requirements placed on service providers.

Network Access Control (NAC)

- » NAC allows for unprecedented control over user access to the network, in order to mitigate threats to network infrastructure. Allied Telesis x310 switches use 802.1x port-based authentication in partnership with standards-compliant dynamic VLAN assignment, to assess a user's adherence to network security policies and either grant access or offer remediation.
- » If multiple users share a port, then multi-authentication can be used. Different users on the same port can be assigned into different VLANs, and so given different levels of network access. Additionally, a guest VLAN can be configured to provide a catch-all for users who aren't authenticated.

Tri-authentication

» Authentication options on the x310 Series also include alternatives to 802.1x port-based authentication, such as web authentication to enable guest access and MAC authentication for end points that do not have an 802.1x supplicant. All three authentication methods—802.1x, MAC-based and Web-based—can be enabled simultaneously on the same port. This is called tri-authentication.

Access Control Lists (ACLs)

» AlliedWare Plus delivers industry-standard Access Control functionality through ACLs. ACLs filter network traffic to control whether routed packets are forwarded or blocked at the port interface. This provides a powerful network security mechanism to select the types of traffic to be analyzed, forwarded, or influenced in some way.

Terminal Access Controller Access–Control System Plus (TACACS+) Authentication and Accounting

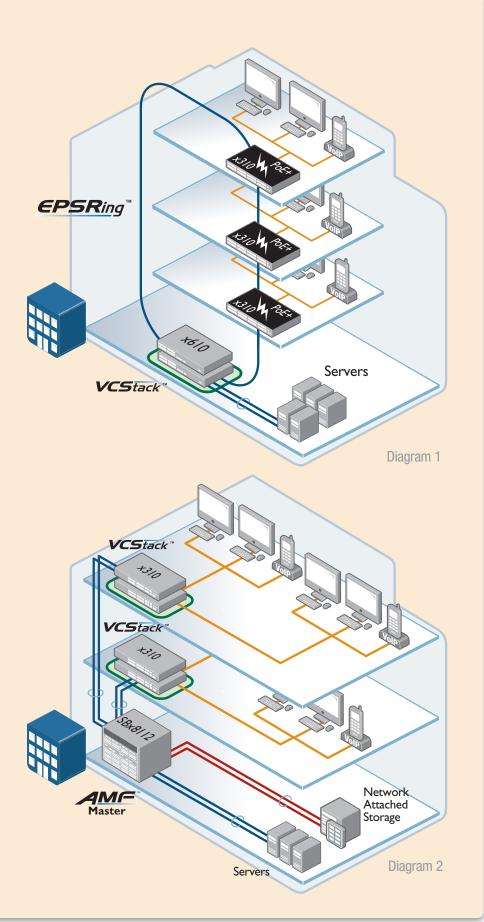
» TACACS+ provides access control for network users from a centralized server. Authentication is carried out via communication between the local switch and a TACACS+ server to check the credentials of users seeking network access. Accounting keeps a record of commands entered during user sessions to ensure a secure network and clear audit trail.



Key Solutions

Network convergence

The convergence of network services in the Enterprise has led to increasing demand for highly available networks with minimal downtime. Diagram I shows x310 PoE+ switches with high performance EPSRing connectivity to the x610 VCStack network core. This topology provides recovery in as little as 50ms, if required. PoE+ powers end points without the need for separate power feeds.



Network flexibility

Multiple x310 units can form a single virtual unit with VCStack, as shown in Diagram 2. This greatly simplifies management and provides a scalable and future-proof network. Management of the network is simple, since all SwitchBlade and x-series switches run the advanced AlliedWare Plus operating system, with an industry standard CLI.

x310 Series | Stackable Access Switches

Product Specifications

PRODUCT	10/100BASE-T (RJ-45) COPPER PORTS	100/1000 COMBO UPLINK PORTS	1 GIGABIT Stacking Ports	POE CAPABLE PORTS	SWITCHING CAPACITY	FORWARDING RATE
AT-x310-26FT	24	2	2	-	12.8 Gbps	6.5 Mpps
AT-x310-50FT	48	2	2	-	17.6 Gbps	10.1 Mpps
AT-x310-26FP	24	2	2	24	12.8 Gbps	6.5 Mpps
AT-x310-50FP	48	2	2	48	17.6 Gbps	10.1 Mpps

Performance

- » 4 Gbps of stacking bandwidth
- » Supports 12KB Jumbo frames
- » Wirespeed multicasting
- » Up to 16K MAC addresses
- » 512MB DDR SDRAM
- » 64MB flash memory
- » Packet Buffer memory: x310-26 1.5MB x310-50 - 3MB

Reliability

- » Modular AlliedWare Plus operating system
- » Full environmental monitoring of PSU, fans, temperature and internal voltages. SNMP traps alert network managers in case of any failure

Power Characteristics

- » AC Voltage: 90 to 260V (auto-ranging)
- » Frequency: 47 to 63Hz

Expandability

» Stackable up to four units in a VCStack

Flexibility and compatibility

- » Gigabit SFP ports on x310 Series will support any combination of Allied Telesis 100Mbps and 1000Mbps SFP modules listed in this document under Ordering Information
- » Port speed and duplex configuration can be set manually or by auto-negotiation

Diagnostic tools

- » Built-In Self Test (BIST)
- » Find-me device locator
- » Automatic link flap detection and port shutdown
- » Optical Digital Diagnostics Monitoring (DDM)
- » Ping polling and TraceRoute for IPv4 and IPv6

» Port mirroring

IP features

- » Static routing for IPv4 and IPv6
- » DHCPv6 client
- » Device management over IPv6 networks with SNMPv6, Telnetv6, SSHv6 and syslogv6
- » NTPv6 client and server

Management

- » Front panel 7-segment LED provides at-a-glance status and fault information
- » Allied Telesis Management Framework (AMF) enables powerful centralized management and zerotouch device installation and recovery

- » Console management port on the front panel for ease of access
- » Eco-friendly mode allows ports and LEDs to be disabled to save power
- » Industry-standard CLI with context-sensitive help
 » Powerful CLI scripting engine
- » Comprehensive SNMP MIB support for standardsbased device management
- » Built-in text editor
- » Event-based triggers allow user-defined scripts to be executed upon selected system events
- » USB interface allows software release files, configurations and other files to be stored for backup and distribution to other devices

Quality of Service (QoS)

- » 8 priority queues with a hierarchy of high priority queues for real time traffic, and mixed scheduling, for each switch port
- » Limit bandwidth per port or per traffic class down to 64kbps
- » Wirespeed traffic classification with low latency essential for VoIP and real-time streaming media applications
- » Policy-based QoS based on VLAN, port, MAC and general packet classifiers
- » Policy-based storm protection
- » Extensive remarking capabilities
- » Taildrop for queue congestion control
- » Strict priority, weighted round robin or mixed scheduling
- » IP precedence and DiffServ marking based on layer 2, 3 and 4 headers

Resiliency features

- » Control Plane Prioritization (CPP) ensures the CPU always has sufficient bandwidth to process network control traffic
- » Dynamic link failover (host attach)
- » EPSRing (Ethernet Protection Switched Rings) with enhanced recovery
- » Loop protection: loop detection and thrash limiting
- » PVST+ compatibility mode
- » STP root guard
- » VCStack fast failover minimizes network disruption

Security features

- » Access Control Lists (ACLs) based on layer 3 and 4 headers
- » Configurable auth-fail and guest VLANs
- » Authentication, Authorization and Accounting (AAA)

- » Bootloader can be password protected for device security
- » BPDU protection
- » DHCP snooping, IP source guard and Dynamic ARP Inspection (DAI)
- » Dynamic VLAN assignment
- » Network Access and Control (NAC) features manage endpoint security
- » Port-based learn limits (intrusion detection)
- » Private VLANs provide security and port isolation for multiple customers using the same VLAN
- » Secure Copy (SCP)
- » Strong password security and encryption
- » Tri-authentication: MAC-based, web-based and IEEE 802.1x

Environmental specifications

- » Operating Temperature Range:
 0°C to 40°C (32°F to 104°F) for AT-x310-26FT (fanless)
- 0°C to 50°C (32°F to 122°F) for AT-x310-26FP/50FP/50FT
- Derated by 1°C per 305 meters (1,000 ft) » Storage Temperature Range:
- -25°C to 70°C (-13°F to 158°F)
- » Operating Relative Humidity Range:
- 5% to 90% non-condensing
- » Storage Relative Humidity Range:
- 5% to 95% non-condensing
- » Operating Altitude:
- 3,048 meters maximum (10,000 ft)

Electrical approvals and compliances

- » EMC: EN55022 class A, FCC class A, VCCI class A
- » Immunity: EN55024, EN61000-3-levels 2 (Harmonics), and 3 (Flicker) AC models only

Safety

- » Standards: UL60950-1, CAN/CSA-C22.2 No. 60950-1-03, EN60950-1, EN60825-1, AS/NZS 60950.1
- » Certification: UL, cUL

Restrictions on Hazardous Substances (RoHS) Compliance

- » EU RoHS Compliant
- » China RoHS Compliant

Country of origin

» China

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Physical specifications

PRODUCT	HEIGHT	WIDTH	DEPTH	MOUNTING	WEIGHT		
					UNPACKAGED	PACKAGED	
AT-x310-26FT	44mm (1.73 in)	340mm (13.39 in)	215mm (8.46 in)	1RU Rack Mount	2.4 kg (5.3 lb)	3.6 kg (7.9 lb)	
AT-x310-50FT	44mm (1.73 in)	440mm (17.32 in)	310mm (12.21 in)	1RU Rack Mount	4.6 kg (10.2 lb)	6.1 kg (13.5 lb)	
AT-x310-26FP	44mm (1.73 in)	440mm (17.32 in)	360mm (14.17 in)	1RU Rack Mount	5.4 kg (11.9 lb)	6.9 kg (15.2 lb)	
AT-x310-50FP	44mm (1.73 in)	440mm (17.32 in)	360mm (14.17 in)	1RU Rack Mount	5.8 kg (12.8 lb)	7.3 kg (16.1 lb)	

Power characteristics

	NO POE LOAD			FULL POE+ LOAD				MAX POE	MAX POE+
PRODUCT	MAX POWER Consumption	MAX HEAT Dissipation	NOISE	MAX POWER Consumption	MAX HEAT Dissipation	NOISE	MAX POE POWER	PORTS AT 15W PER PORT	PORTS AT 30W PER PORT
AT-x310-26FT	24W	81 BTU/hr	Fanless	-	-	-	-	-	-
AT-x310-50FT	48W	164 BTU/hr	33.4 dBA	-	-	-	-	-	-
AT-x310-26FP	50W	168 BTU/hr	38.2 dBA	460W	308 BTU/hr	60.0 dBA	370W	24	12
AT-x310-50FP	61W	209 BTU/hr	42.8 dBA	472W	349 BTU/hr	60.4 dBA	370W	24	12

Standards and Protocols

AlliedWare Plus Operating System Version 5.4.4-1

Authentication

RFC 1321 MD5 Message-Digest algorithm RFC 1828 IP authentication using keyed MD5

Encryption

Secure Hash standard (SHA-1)
Digital signature standard (RSA)
Data Encryption Standard (DES and 3DES)

Ethernet

IEEE 802.1AX Link aggregation (static and LACP)				
IEEE 802.2	Logical Link Control (LLC)			
IEEE 802.3	Ethernet			
IEEE 802.3ac	Static and dynamic link aggregation			
IEEE 802.3af	Power over Ethernet (PoE)			
IEEE 802.3at	Power over Ethernet plus (PoE+)			
IEEE 802.3az	Energy Efficient Ethernet (EEE)			
IEEE 802.3u	100BASE-X			
IEEE 802.3x	Flow control - full-duplex operation			
IEEE 802.3z	1000BASE-X			

IPv4 Features

II V+ICut	0.62
RFC 791	Internet Protocol (IP)
RFC 792	Internet Control Message Protocol (ICMP)
RFC 826	Address Resolution Protocol (ARP)
RFC 894	Standard for the transmission of IP datagrams
	over Ethernet networks
RFC 919	Broadcasting Internet datagrams
RFC 922	Broadcasting Internet datagrams in the
	presence of subnets
RFC 932	Subnetwork addressing scheme
RFC 950	Internet standard subnetting procedure
RFC 1042	Standard for the transmission of IP datagrams
	over IEEE 802 networks
RFC 1071	Computing the Internet checksum
RFC 1122	Internet host requirements
RFC 1191	Path MTU discovery
RFC 1256	ICMP router discovery messages
RFC 1518	An architecture for IP address allocation with
	CIDR

RFC 1519 Classless Inter-Domain Routing (CIDR)

RFC 1812 Requirements for IPv4 routers RFC 1918 IP addressing

IPv6 Features

IF VO Feat	ures
RFC 1981	Path MTU discovery for IPv6
RFC 2460	IPv6 specification
RFC 2464	Transmission of IPv6 packets over Ethernet
	networks
RFC 3484	Default address selection for IPv6
RFC 3596	DNS extensions to support IPv6
RFC 4007	IPv6 scoped address architecture
RFC 4193	Unique local IPv6 unicast addresses
RFC 4291	IPv6 addressing architecture
RFC 4443	Internet Control Message Protocol (ICMPv6)
RFC 4861	Neighbor discovery for IPv6
RFC 4862	IPv6 Stateless Address Auto-Configuration
	(SLAAC)
RFC 5014	IPv6 socket API for source address selection
RFC 5095	Deprecation of type 0 routing headers in IPv6
Managen	
AME MID on	d CNMD trang

AMF MIB and	d SNMP traps			
AT Enterprise MIB				
SNMPv1, v2	c and v3			
IEEE 802.1AI	BLink Layer Discovery Protocol (LLDP)			
RFC 1155	Structure and identification of management			
	information for TCP/IP-based Internets			
RFC 1157	Simple Network Management Protocol (SNMP)			
RFC 1212	Concise MIB definitions			
RFC 1213	MIB for network management of TCP/IP-based			
	Internets: MIB-II			
RFC 1215	Convention for defining traps for use with the			
	SNMP			
RFC 1227	SNMP MUX protocol and MIB			
RFC 1239	Standard MIB			
RFC 2011	SNMPv2 MIB for IP using SMIv2			
RFC 2012	SNMPv2 MIB for TCP using SMIv2			
RFC 2013	SNMPv2 MIB for UDP using SMIv2			
RFC 2096	IP forwarding table MIB			
RFC 2578	Structure of Management Information v2			
	(SMIv2)			

- Textual conventions for SMIv2 RFC 2579
- RFC 2580 Conformance statements for SMIv2 RFC 2674 Definitions of managed objects for bridges with traffic classes, multicast filtering and VLAN extensions

RFC 2741	Agent extensibility (AgentX) protocol			
RFC 2819	RMON MIB (groups 1,2,3 and 9)			
RFC 2863	Interfaces group MIB			
RFC 3164	Syslog protocol			
RFC 3176	sFlow: a method for monitoring traffic in			
	switched and routed networks			
RFC 3411	An architecture for describing SNMP			
	management frameworks			
RFC 3412	Message processing and dispatching for the			
	SNMP			
RFC 3413	SNMP applications			
RFC 3414	User-based Security Model (USM) for SNMPv3			
RFC 3415	View-based Access Control Model (VACM) for			
	SNMP			
RFC 3416	Version 2 of the protocol operations for the			
	SNMP			
RFC 3417	Transport mappings for the SNMP			
RFC 3418	MIB for SNMP			
RFC 3621	Power over Ethernet (PoE) MIB			
RFC 3635	Definitions of managed objects for the Ethernet-			
	like interface types			
RFC 3636	IEEE 802.3 MAU MIB			
RFC 4188	Definitions of managed objects for bridges			
RFC 4318	Definitions of managed objects for bridges with			
	RSTP			
RFC 4560	Definitions of managed objects for remote ping,			
	traceroute and lookup operations			
Multicast Support IGMP query solicitation				
IGMP query	SOIICITATION			

IGMP query	IGMP query solicitation				
IGMP snoop	IGMP snooping (v1, v2 and v3)				
IGMP snoop	ing fast-leave				
MLD snooping (v1 and v2)					
RFC 1112	Host extensions for IP multicasting (IGMPv1)				
RFC 2236	Internet Group Management Protocol v2				
	(IGMPv2)				
RFC 3376	IGMPv3				

Quality of Service (QoS)

Priority tagging
Specification of the controlled-load network
element service
DiffServ precedence for eight queues/port
DiffServ architecture
DiffServ Assured Forwarding (AF)

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RFC 2697	A single-rate three-color marker
RFC 2698	A two-rate three-color marker
RFC 3246	DiffServ Expedited Forwarding (EF)

Resiliency Features

 IEEE 802.1D
 MAC bridges

 IEEE 802.1s
 Multiple Spanning Tree Protocol (MSTP)

 IEEE 802.1w
 Rapid Spanning Tree Protocol (RSTP)

Security Features

SSH remote login SSI v2 and SSI v3 TACACS+ accounting and authentication IEEE 802.1X authentication protocols (TLS, TTLS, PEAP and MD5) IEEE 802.1X multi-supplicant authentication IEEE 802.1X port-based network access control RFC 2246 TLS protocol v1.0 RFC 2865 RADIUS RFC 2866 RADIUS accounting RFC 2868 RADIUS attributes for tunnel protocol support Transport Layer Security (TLS) extensions RFC 3546 RADIUS support for Extensible Authentication RFC 3579 Protocol (FAP) RFC 3580 IEEE 802.1x RADIUS usage guidelines RFC 3748 PPP Extensible Authentication Protocol (EAP) BEC 4251 Secure Shell (SSHv2) protocol architecture RFC 4252 Secure Shell (SSHv2) authentication protocol BEC 4253 Secure Shell (SSHv2) transport layer protocol RFC 4254 Secure Shell (SSHv2) connection protocol

Services

RFC 854	Telnet protocol specification
RFC 855	Telnet option specifications
RFC 857	Telnet echo option
RFC 858	Telnet suppress go ahead option
RFC 1091	Telnet terminal-type option
RFC 1350	Trivial File Transfer Protocol (TFTP)
RFC 1985	SMTP service extension
RFC 2049	MIME
RFC 2131	DHCP
RFC 2132	DHCP options and BootP vendor extensions
RFC 2554	SMTP service extension for authentication
RFC 2616	Hypertext Transfer Protocol - HTTP/1.1
RFC 2821	Simple Mail Transfer Protocol (SMTP)
RFC 2822	Internet message format
RFC 4330	Simple Network Time Protocol (SNTP) version 4
RFC 5905	Network Time Protocol (NTP) version 4

VLAN support

IEEE 802.1Q Virtual LAN (VLAN) bridges IEEE 802.1v VLAN classification by protocol and port IEEE 802.3ac VLAN tagging

Voice over IP (VoIP)

LLDP-MED ANSI/TIA-1057 Voice VLAN

Ordering Information

Switches

AT-x310-26FT-xx

24-port 10/100BASE-T switch with 2 combo ports (100/1000X SFP or 10/100/1000T) and 2 stacking ports

AT-x310-50FT-xx

48-port 10/100BASE-T switch with 2 combo ports (100/1000X SFP or 10/100/1000T) and 2 stacking ports

AT-x310-26FP-xx

24-port 10/100BASE-T PoE+ switch with 2 combo ports (100/1000X SFP or 10/100/1000T) and 2 stacking ports

AT-x310-50FP-xx

48-port 10/100BASE-T PoE+ switch with 2 combo ports (100/1000X SFP or 10/100/1000T) and 2 stacking ports

Where xx = 10 for US power cord 20 for no power cord 30 for UK power cord 40 for Australian power cord 50 for European power cord

SFP modules

AT-SPFX/2 100FX multi-mode 1310nm fiber up to 2km

AT-SPFX/I5 100FX single-mode 1310nm fiber up to 15km

AT-SPFXBD-LC-13 100BX Bi-Di (1310nmTx,1550nm Rx) fiber up to 10km

AT-SPFXBD-LC-15

100BX Bi-Di (1550nm Tx,1310nm Rx) fiber up to 10km

AT-SPSX

1000SX GbE multi-mode 850nm fiber up to 550m

AT-SPSX/I 1000SX GbE multi-mode 850nm fiber up to 550m industrial temperature

AT-SPEX

1000X GbE multi-mode 1310nm fiber up to 2km







AT-SPLX10 1000LX GbE single-mode 1310nm fiber up to 10km

AT-SPLXI0/I

1000LX GbE single-mode 1310nm fiber up to 10km industrial temperature

AT-SPBDI0-13

1000LX GbE Bi-Di (1310nm Tx, 1490nm Rx) fiber up to 10km

AT-SPBDI0-14

1000LX GbE Bi-Di (1490nm Tx, 1310nm Rx) fiber up to 10km

AT-SPLX40 1000LX GbE single-mode 1310nm fiber up to 40km

AT-SPZX80

1000ZX GbE single-mode 1550nm fiber up to 80km

Stacking cables

AT-StackXS/I.0 1.0 meter copper stacking cable

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the solution : the network

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