

x530 Series

Stackable Multi-Gigabit Layer 3 Switches

The Allied Telesis x530 Series of stackable Multi-Gigabit Layer 3 switches feature high capacity, resiliency and easy management, making them the ideal choice for demanding distribution and high-speed connectivity applications.











Overview

Allied Telesis x530 Series switches are a high-performing and feature rich choice for today's networks. They offer a versatile solution for enterprise applications, with Gigabit and Multi-Gigabit ports, along with 10 Gigabit uplinks. The power and flexibility of Virtual Chassis Stacking (VCStackTM) enables the x530 Series to connect any size business.

Network automation

Vista Manager™ EX bundled with Allied Telesis Autonomous Management Framework™ Plus (AMF Plus) meets the increasing management requirements of modern networks. While AMF Plus allows an entire network to be securely and easily managed as a single virtual device, Vista Manager EX provides an intuitive and powerful graphical tool for monitoring and managing AMF Plus wired and Autonomous Wave Control (AWC) wireless devices.

Device and network management

The Device GUI enables graphical monitoring of key switch features to support easy management.

Integrated into the Device GUI, Vista ManagerTM mini supports visibility and management of AMF Plus wired and AWC wireless network devices, making it ideal as a one-stop solution for small to medium-sized networks.

AWC is an intelligent, easy to use Wireless LAN controller that automatically maintains optimal wireless coverage. Vista Manager mini includes AWC floor and heat maps showing wireless coverage. It also supports AWC Channel Blanket hybrid operation, providing maximum performance and seamless roaming, as well as AWC Smart Connect for simplified deployment, and a resilient Wi-Fi network solution using wireless uplink connectivity.

Resilient

Allied Telesis Ethernet Protection Switched Ring (EPSRing™) and the standards-based G.8032 Ethernet Ring Protection, ensure that distributed network segments have high-speed, resilient access to online resources and applications.

x530 Series can form a VCStack of up to eight¹ units. In conjunction with link aggregation, VCStack provides an enhanced resiliency with no single point of failure to meet today's increasing demand for high-available networks with minimal downtime. With Long Distance Stacking (VCStack LD), it allows stacks to be created over fibre links, making the x530 Series the perfect choice for distributed environment.

Reliable

Dual built-in power supplies guarantees the delivery of essential services, and near-hitless online stack reconfiguration enables maintenance to be performed without affecting network uptime. The x530DP models feature dual hot-swappable power supplies to maximize uptime, and which also support higher PoE power budgets.

Secure

The x530 Series offers powerful control over network traffic types, secure management options, loop guard to protect against cabling mistakes, and tri-authentication for comprehensive access control.

Power over Ethernet

Connect and power a variety of endpoints with PoE. The flexible x530 series has models supporting the 30 watts of PoE+, and the 60 or 90 watts of PoE++, to support high resolution PTZ cameras, enhanced lighting controllers, and other high power devices.

High-speed wireless

2.5 and 5 Gigabit connectivity supports high-speed wireless, and avoids the need to upgrade existing Cat5e/6 cables

Environmentally friendly

The x530 Series support Energy Efficient Ethernet (EEE), automatically reducing the power consumed by the switch whenever there is no traffic on a port.

Key Features

- ► Allied Telesis Autonomous Management Framework™ Plus (AMF Plus)
- AMF-Security compatile
- VCStack™ up to 8¹ units locally, or over long distance
- ► Multi-Gigabit 1/2.5/5G ports
- ► Up to 90W PoE++ power per port (GHXm models)
- ► EPSR[™] (master and transit)
- ► G.8032 ERPS for resilient rings
- ▶ OpenFlow for SDN
- ► Active Fiber Monitoring (AFM)
- ► Upstream Forwarding Only (UFO)
- ► Bi-directional Forwarding Detection (BFD)
- VLAN Translation
- ► Multicast Source Discovery Protocol (MSDP)
- ▶ Link Monitoring
- VXLAN static tunnels
- ► Vista Manager mini enables:
 - » Wired and wireless network visibility
 - » AWC wireless network management
 - » AWC-Channel Blanket hybrid wireless
 - » AWC-Smart Connect wireless uplinks
- ► FIPS 140-2 certified
- ► Ethernet Alliance PoE Class 6² and Class 8³ certified
- ► Reverse airflow option for flexible deployment⁴
- ▶ NETCONF/RESTCONF with YANG data modelling
- ► IPFIX (IP Flow Information Export)

 $^{^{\}rm 1}$ Up to 4 units supported if using 1Gbps ports for stacking $^{\rm 2}$ For x530DP-28/52GHXm

³ For x530-10/18GHXm

⁴Supported only on x530DP models

Key Features

Vista Manager mini

▶ Integrated into the Device GUI, Vista Manager mini provides full network visibility of AMF Plus wired and AWC wireless devices. Manage and simplify wireless deployment with AWC-Smart Connect, and support optimal wireless performance from AWC hybrid operation with maximum throughput and a seamless Wi-Fi user experience.

Allied Telesis Autonomous Management Framework™ Plus (AMF Plus)

- AMF Plus is a sophisticated suite of management tools that provide a simplified approach to zerotouch network management.
- Any x530 Series can operate as the AMF Plus network master, storing firmware and configuration backups for other network nodes. The AMF Plus master enables auto-provisioning and auto-upgrade by providing appropriate files to new network members. New network devices can be pre-provisioned, making installation easy because no onsite configuration is required.
- An AMF Plus license provides all standard AMF network management and automation features, and also enables the AMF Plus intent-based networking features menu in Vista Manager EX (from version 3.10.1 onwards).

AWC Wireless Management

- Optimize wireless network performance with the Autonomous Wave Controller (AWC), built-in to the x530 Series. AWC analyzes wireless traffic patterns and automatically reconfigures access points to meet demand.
- Wireless network operation in multi-channel, single-channel (Channel Blanket), and hybrid (multi-channel and Channel Blanket) modes, supports maximum data throughput and seamless roaming for the most flexible wireless solution available.
- AWC-Smart Connect (AWC-SC) enables plug-and play wireless network growth, as new APs only need a power connection, and will then automatically create resilient wireless uplink connections to other APs.

AMF-Security

➤ The AMF-Security (AMF-Sec) solution enables internal LAN threat detection and automatic end-point isolation to protect the network. As part of an AMF-Sec solution, the x530 series can be used to block the threat at source by quarantining the infected end-point.

Virtual Chassis Stacking (VCStack™)

The x530 Series supports VCStack up to 8 units (or 4 units if using 1Gbps ports for stacking). VCStack, in conjunction with link aggregation, provides a high available system where network resources are spread out across stacked units, providing excellent resiliency.

Long-Distance Stacking (VCStack LD)

 VCStack LD allows a VCStack to be created over longer distances, perfect for distributed network environments.

Ethernet Protection Switched Ring (EPSRing™)

- ➤ EPSRing and 10 Gigabit Ethernet allow several x530 Series switches to form high-speed protected rings capable of recovery within as little as 50ms, perfect for high performance and high availability in enterprise networks.
- ➤ The x530 Series switches can act as the ESPR Master, or be deployed as EPSR transit nodes, in a high-speed ring.

G.8032 Ethernet Ring Protection

- G.8032 provides standards-based high-speed ring protection, that also interoperate with Allied Telesis EPSR.
- Ethernet Connectivity Fault Monitoring (CFM) proactively monitors links and VLANs, and provides alerts when a fault is detected.

Multi-Gigabit Ethernet

► IEEE 802.3bz supports speeds of 2.5 and 5Gbps on legacy Cat5e cables, allowing high-speed wireless APs to run at full capacity without re-cabling.

Power over Ethernet Plus (PoE+/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 flexibility, with the x530 Series supplying up to 30W per port (PoE+) to endpoints.
- ► The x530DP models support PoE++ up to 60W per port, and the GHXm models up to 90W per port, to connect high power devices such as high resolution PTZ cameras, enhanced infrared lighting and lighting controllers, remote Point of Sale (POS) kiosks, and more. The GHXm models also support 2.5/5Gbps on all ports to connect and power devices over Multi-Gigabit networks.

Active Fiber Monitoring (AFM)

➤ AFM prevents eavesdropping on fiber communications by monitoring received optical power. If an intrusion is detected, the link can be automatically shut down, or an operator alert can be sent.

Continuous PoE

Continuous PoE allows the switch to be restarted without affecting the supply of power to connected devices. Smart lighting, security cameras, and other PoE devices will continue to operate during a software upgrade on the switch.

Virtual Routing and Forwarding (VRF-Lite)

- ▶ VRF-Lite provides Layer 3 network virtualization by dividing a single switch into multiple independent virtual routing domains. With independent routing domains, IP addresses can overlap without causing conflict, allowing multiple customers to have their own secure virtual network within the same physical infrastructure. VRF-Lite supports IPv4 and IPv6 unicast and multicast traffic.
- ➤ The built-in DHCP Server on the x530 Series is VRF aware, enabling the supply of IP addresses to clients across multiple isolated networks.

High Reliability

► The x530 Series feature front to back cooling and dual fixed internal PSUs. DP models feature dual hot-swap PSUs for maximum uptime.

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 (up to 5 collectors can be configured) ensure it always has a real-time view of network traffic.

IPFIX (IP Flow Information Export)

▶ IPFIX enables exporting IP flow data in a network for analysis. This provides network administrators with information for accounting, billing, capacity planning, and performance optimization.

VLAN Mirroring (RSPAN)

VLAN mirroring allows traffic from a port on a remote switch to be analyzed locally. Traffic being transmitted or received on the port is duplicated and sent across the network on a special VLAN.

Upstream Forwarding Only (UFO)

▶ UFO lets you manage which ports in a VLAN can communicate with each other, and which only have upstream access to services, for secure multi-user deployment.

Bidirection Forwarding Detection (BFD)

▶ BFD enables fast detection of link failures, so recovery time is minimized. BFD works with static routes, and also alongside BGP and OSPF dynamic routing protocols supporting faster shutdown of neighbor connections if a peer session goes down. When using VRF-Lite, BFD is supported globally or within a domain.

VLAN Translation

- Service Providers can provide customer traffic with a unique VLAN-ID for use within the SP's network.
- ► Enterprises can merge two networks together, without reconfiguring VLAN numbering.

Software Defined Networking (SDN)

 OpenFlow enables SDN to build smart applications that unlock value and reduce cost.

Link Monitoring (Linkmon)

▶ Linkmon health monitoring regularly sends probes over key links to gather metrics comprising latency, jitter, and probe loss. This supports pro-active management, and can be used with triggers to automate a change to network configuration in response to the declining health of a monitored link.

Virtual Extensible LAN (VXLAN) tunnels

► VXLAN tunnels let you join two or more L2 networks over an L3 IP network to form a single L2 broadcast domain. VXLAN adds scalability to cloud computing environments. The x530 Series supports static VXLAN tunnels.

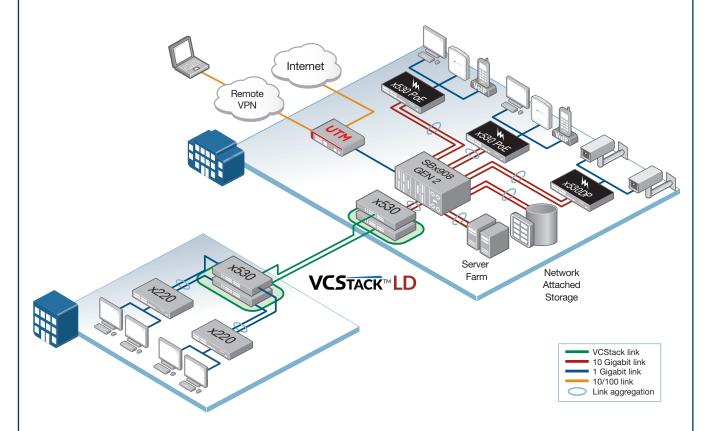
NETCONF/RESTCONF

➤ NETCONF/RESTCONF with YANG data modeling provide a standardized way to represent data, and securely configure devices from modern management systems.

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Key Solutions

Distribution and Edge Connectivity



Resilient distributed switching

Allied Telesis x530 Series switches are ideal for distribution solutions, where resiliency and flexibility are required. In the above diagram, distribution switches utilize long distance VCStack LD to create a single virtual unit out of multiple devices. By using fiber stacking connectivity, units can be kilometers apart—perfect for a distributed environment.

When combined with link aggregation, VCStack provides a solution with no single point of failure that fully utilizes all network bandwidth.

Allied Telesis x530 Series switches support Enterprises and their use of business-critical online resources and applications, with a resilient and reliable distributed solution.

Peace of mind at the network edge

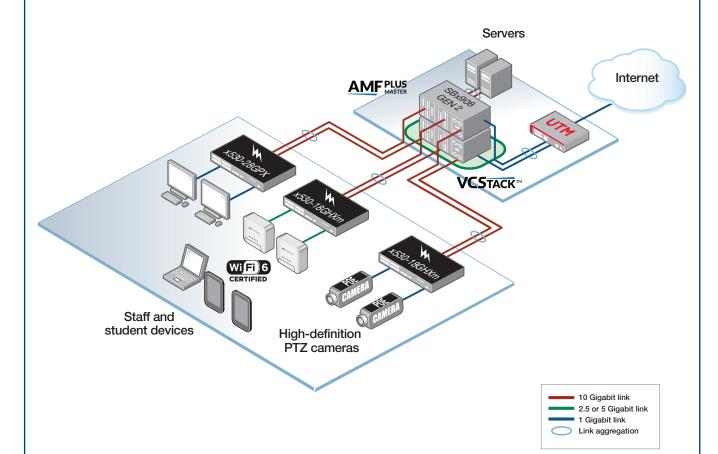
Allied Telesis x530 Series switches are the ideal choice for the network edge where security, resiliency and flexibility are required. In the above diagram, security is enforced using Network Access Control (NAC) combined with tri-authentication to prevent unauthorized users and devices from connecting to the network. Link aggregation is used to provide resiliency back to the core chassis, and to increase available bandwidth over a single link.

The x530 Series can provide 30 Watts of PoE+, or the 60 or 90 Watts of PoE++ per port (depending on model) to connect and power a wide range range of devices.

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Key Solutions

Multi-Gigabit Connectivity



2.5/5G Multi-Gigabit connectivity

The x530 Series feature Multi-Gigabit ports which enable higher speed connectivity at 2.5 or 5Gbps.

This supports new applications, with the ability to connect and power Wi-Fi 6 APs at 2.5/5Gbps to remove bottlenecks and ensure maximum performance for many wireless user devices.

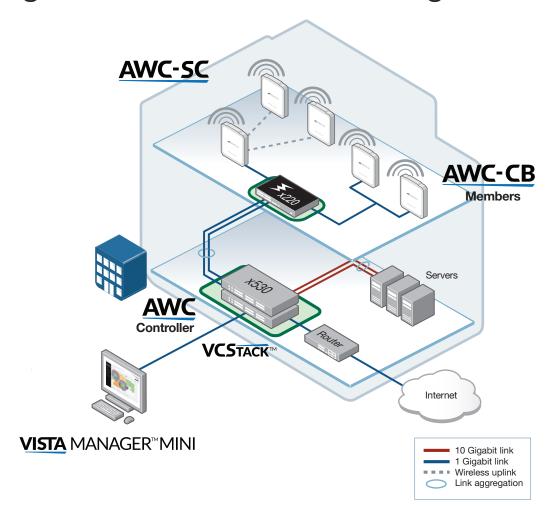
It also can support network backbone upgrades from 1 to 5 Gbps without the need to replace existing Cat5e and Cat6/6A building cables - enabling an easy high-value infrastructure and performance update.

The GHXm models supply up to 90W per port of Power over Ethernet (PoE++) to enable connecting and powering the latest high-definition Pan, Tilt, Zoom (PTZ) cameras with heaters and blowers.

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Key Solutions

Integrated wireless LAN management



Allied Telesis Autonomous Wave Controller (AWC) offers solutions for two of the most common problems with Wireless LANs: initial setup complexity and on-going performance degradation. Initial WLAN set-up usually requires a site survey to achieve the best coverage; and performance of WLANs can often change over time as external sources of radio interference reduce coverage and bandwidth. These issues can be time-consuming to identify and resolve.

AWC features an intelligent process that automatically recalibrates the signal strength and radio channel of each Access Point (AP) for optimal WLAN performance.

AWC Smart Connect (AWC-SC) uses wireless uplink connections between APs, so deployment is as easy as plugging in and powering on the new APs, which automatically extend the Wi-Fi network, creating a resilient solution.

Vista Manager mini is integrated into the Device GUI of the x530 Series and provides an ideal solution for modern enterprise networks, enabling management of both the wired (with AMF plus) and wireless (with AWC) networks to be automated. This reduces both the time and cost of network administration, as well as maximizing network performance for a superior user experience.

Up to 5 TQ Series wireless APs can be managed for free, and up to a further 40 APs (max 45) with feature licenses, available separately.

On some AP models, hybrid channel blanket enables multi-channel and single-channel WiFi operation simultaneously. This supports seamless roaming and maximum throughput. Channel Blanket licenses are available for up to 40 APs. For plug-and-play wireless deployment AWC-SC licenses are available for up to 40 APs.

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Specifications

PRODUCT	10/100/1000T (RJ-45) COPPER PORTS	100M/1/2.5/5 Gigabit Ports	100M/1 GIGABIT SFP PORTS	1/10 GIGABIT SFP+ PORTS	STACKING PORTS	POE ENABLED PORTS	SWITCHING FABRIC	FORWARDING RATE
x530-10GHXm	-	8	-	2	2*	8	120Gbps	89Mpps
x530-18GHXm	-	16	-	2	2*	16	200Gbps	149Mpps
x530-28GTXm	20	4	-	4	2*	-	160Gbps	119Mpps
x530-28GPXm	20	4	-	4	2*	24	160Gbps	119Mpps
x530-52GTXm	40	8	-	4	2*	-	240Gbps	179Mpps
x530-52GPXm	40	8	-	4	2*	48	240Gbps	179Mpps
x530DP-28GHXm	20	4	-	4	2*	24	160Gbps	119Mpps
x530DP-52GHXm	40	8	-	4	2*	48	240Gbps	179Mpps
x530-28GSX	-	-	24	4	2*	-	128Gbps	95Mpps

^{*} Stacking ports can be configured as additional 1G/10G Ethernet ports when the switch is not stacked

Performance

- 40Gbps of stacking bandwidth when using front panel 10G SFP+ ports
- ▶ 10KB L2 and 9KB L3 Jumbo frames
- ▶ 4094 configurable VLANs
- ▶ Up to 16K MAC addresses
- ▶ Up to 128 Link Aggregation Groups (LAGS) any combination of static and dynamic (LACP)
- ▶ 1GB DDR3 SDRAM, 256MB NAND flash memory
- Packet buffer memory:

 - 1.5MB (28-port models) 3MB (10, 18, DP-28 models)
 - 4.5MB (52-port models)6MB (DP-52 model)

Reliability

- ► Modular AlliedWare Plus operating system
- Internal dual fixed PSUs, providing uninterrupted power and extra reliability. The x530DP models feature dual hot-swappable power supplies
- ► Full environmental monitoring of PSUs, fans, temperature and internal voltages. SNMP traps alert network managers in case of any failure

Expandability

- Stack up to eight¹ units in a VCStack
- ► Versatile licensing options for additional features

Flexibility and Compatibility

- ▶ SFP ports on the x530-28GSX support Allied Telesis 100Mbps and 1Gbps SFP modules
- ▶ 10G SFP+ ports will support any combination of Allied Telesis 1000Mbps SFP and 10GbE SFP+ modules and direct attach cables listed in this document under Ordering Information
- ▶ Port speed and duplex configuration can be set manually or by auto-negotiation
- Front-panel SFP+ stacking ports can be configured as 1G/10G Ethernet ports

Diagnostic Tools

- Connectivity Fault Management (CFM) Continuity Check Protocol (CCP) for use with G.8032 ERPS
- ► Built-In Self Test (BIST)
- ► Ping polling and TraceRoute for IPv4 and IPv6
- Optical Digital Diagnostic Monitoring (DDM)
- ► Find-me device locator
- ► Automatic link flap detection and port shutdown
- ► Cable fault locator (TDR)
- Uni-Directional Link Detection (UDLD)
- Active Fiber Monitoring detects tampering on optical links

- ► Port mirroring
 - » No limit on mirrored ports
 - » Up to 7 mirror (analyzer) ports
- VLAN mirroring (RSPAN)

IPv4 Features

- ► Equal Cost Multi Path (ECMP) routing
- ► Static unicast and multicast routing for IPv4
- ► UDP broadcast helper (IP helper)
- Directed broadcast forwarding
- ▶ Black hole routing
- ▶ DNS relay
- Policy-based routing
- ► Route redistribution (OSPF, RIP, and BGP)
- ► Virtual Routing and Forwarding Lite (VRF-Lite) up to 64 domains

IPv6 Features

- ► Device management over IPv6 networks with SNMPv6, Telnetv6 and SSHv6
- IPv4 and IPv6 dual stack
- ► IPv6 over IPv4 tunneling (manual configuration only)
- ► Log to IPv6 hosts with Syslog v6
- ▶ NTPv6 client and server
- DNSv6 client, DNSv6 relay
- DHCPv6 server, relay, and client
- ► Static IPv6 unicast and multicast routing
- ▶ IPv6 aware storm protection and QoS
- ▶ IPv6 hardware ACLs
- ▶ IPv6 Ready certified

Management

- Industry-standard CLI with context-sensitive help
- ▶ Built-in text editor and powerful CLI scripting
- ► Comprehensive SNMP MIB support for standardsbased device management
- Console management port on the front panel for
- ► Event-based triggers allow user-defined scripts to be executed upon selected system events
- ► Eco-friendly mode allows ports and LEDs to be disabled to save power
- ▶ USB interface allows software release files, configurations and other files to be stored for backup and distribution to other devices
- ► Front panel 7-segment LED provides at-a-glance status and fault information

- ► Autonomous Management Framework plus (AMF Plus) enables powerful centralized management and zero-touch device installation and recovery
- ▶ Try AMF Plus for free with the built-in Starter license (includes network management and automation features, but not Vista Manager AMF Plus menu features)
- ► Web-based Graphical User Interface (GUI)
- ▶ NETCONF/RESTCONF northbound interface with YANG data modelling

Quality of Service

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

Resiliency Features

- ▶ EPSRing (Ethernet Protection Switched Rings) with SuperLoop Protection (SLP) and enhanced recovery
- ▶ EPSR Master or transit node deployment
- ▶ Bi-directional Forwarding Detection (BFD)
- ► STP root guard
- ► Loop protection: thrash limiting and loop detection
- Dynamic link failover (host attach)
- ► Control Plane Prioritization (CPP) ensures the CPU always has sufficient bandwidth to process network control traffic
- ▶ PVST+ compatibility mode
- ► VCStack fast failover minimizes network disruption
- ► SFP+ stacking ports can be configured as 10G Ethernet ports
- ► Long-Distance VCStack using fiber modules (VCStack-LD)
- ▶ BPDU forwarding

Security Features

► Federal Information Processing Standard Publication 140-2 (FIPS 140-2) certified

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¹ Up to 4 units supported if using 1Gbps ports for stacking

- MAC address filtering and MAC address lockdown
- ► Learn limits (intrusion detection) for single ports or LAGs
- Access Control Lists (ACLs) based on layer 3 and 4 headers
- ▶ Dynamic ACLs assigned via port authentication
- ► ACL Groups enable multiple hosts/ports to be included in a single ACL, reducing configuration
- ➤ Private VLANs provide security and port isolation for multiple customers using the same VLAN
- ► Secure Copy (SCP)
- ► BPDU protection
- Network Access and Control (NAC) features manage endpoint security
- ► Dynamic VLAN assignment
- ▶ DoS attack blocking and virus throttling
- ► Tri-authentication: MAC-based, web-based and IEEE 802.1x
- DHCP snooping, IP source guard and Dynamic ARP Inspection (DAI)

- ▶ Strong password security and encryption
- ► Auth fail and guest VLANs
- ► Secure File Transfer Protocol (SFTP) client
- Authentication, Authorisation and Accounting (AAA)
- Bootloader can be password protected for device security
- ► Configurable ACLs for management traffic
- ► RADIUS group selection per VLAN or port
- ► RADIUS Proxy

Environmental Specifications

- Operating temperature range: 0°C to 50°C (32°F to 122°F) 0°C to 65°C (32°F to 149°F) (x530DP models)
- ► 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)

Software Defined Networking (SDN)

 OpenFlow v1.3 with support for encryption, connection interruption and inactivity probe

Electrical Approvals and Compliances

- ► EMC: EN55032 class A, FCC class A, VCCI class A, ICES-003 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, FIPS 140-2

Restrictions on Hazardous Substances (RoHS) Compliance

- ► EU RoHS compliant
- ► China RoHS compliant

Physical Specifications

PRODUCT	WIDTH X DEPTH X HEIGHT	MOUNTING	WEI	PACKAGED DIMENSIONS	
PRUDUCI	WIDTH A DEPTH A REIGHT	MOUNTING	UNPACKAGED	PACKAGED	PACKAGED DIMENSIONS
x530-10GHXm	441 x 421 x 44 mm (17.36 x 16.57 x 1.73 in)	Rack-mount	6.6 kg (14.55 lb)	8.8 kg (19.40 lb)	575 x 555 x 155 mm (22.64 x 21.85 x 6.10 in)
x530-18GHXm	441 x 421 x 44 mm (17.36 x 16.57 x 1.73 in)	Rack-mount	6.7 kg (14.78 lb)	8.9 kg (19.62 lb)	557 x 548 x 153 mm (21.93 x 21.57 x 6.02 in)
x530-28GTXm	441 x 323 x 44 mm (17.36 x 12.72 x 1.73 in)	Rack-mount	4.8 kg (10.58 lb)	6.8 kg (14.99 lb)	563 x 534 x 128 mm (22.16 x 21.02 x 5.04 in)
x530-28GPXm	441 x 421 x 44 mm (17.36 x 16.57 x 1.73 in)	Rack-mount	6.3 kg (13.90 lb)	8.3 kg (18.29 lb)	563 x 534 x 128 mm (22.16 x 21.02 x 5.04 in)
x530-52GTXm	441 x 323 x 44 mm (17.36 x 12.72 x 1.73 in)	Rack-mount	5.3 kg (11.60 lb)	7.3 kg (16.00 lb)	563 x 534 x 128 mm (22.16 x 21.02 x 5.04 in)
x530-52GPXm	441 x 421 x 44 mm (17.36 x 16.57 x 1.73 in)	Rack-mount	6.9 kg(15.20 lb)	8.9 kg(19.60 lb)	563 x 632 x 128 mm (22.16 x 24.88 x 5.04 in)
x530DP-28GHXm	441 x 421 x 44 mm (17.36 x 16.57 x 1.73 in)	Rack-mount	5.4 kg (11.82 lb)	7.5 kg (16.49 lb)	557 x 548 x 153 mm (21.93 x 21.57 x 6.02 in)
x530DP-52GHXm	441 x 421 x 44 mm (17.36 x 16.57 x 1.73 in)	Rack-mount	5.6 kg (12.26 lb)	7.7 kg (17.02 lb)	557 x 548 x 153 mm (21.93 x 21.57 x 6.02 in)
x530-28GSX	441 x 323 x 44 mm (17.36 x 12.72 x 1.73 in)	Rack-mount	5.2 kg (11.46 lb)	7.2 kg (15.87 lb)	563 x 534 x 128 mm (22.16 x 21.02 x 5.04 in)

Power and Noise Characteristics

	PSUs INSTALLED	NO	POE LOAD		FULL POE+ LOAD			MAX	POE SOURCING PORTS			
PRODUCT		MAX POWER CONSUMPTION (W)	MAX HEAT DISSIPATION (BTU/H)	NOISE (DBA)	MAX POWER CONSUMPTION (W)	MAX HEAT DISSIPATION (BTU/H)	NOISE (DBA)	POE POWER (W)	P0E (15.4W)	P0E + (30W)	P0E ++ (60W)	P0E ++ (90W)
x530-10GHXm	Internal	73	249	37	970	3309	37	720	8	8	8	8
x530-18GHXm	Internal	130	443	37	1400	4776	37	1000	16	16	16	11
x530-28GTXm	Internal	55	188	42	-	-	-	-	-	-	-	-
x530-28GPXm	Internal	77	264	44	900	614	44	740	24	24	-	-
x530-52GTXm	Internal	85	290	42	-	-	-	-	-	-	-	-
x530-52GPXm	Internal	88	300	42	970	661	42	740	48	24	-	-
x530DP-28GHXm	PWR150 x 1	77	263	51	-	-	-	-	-	-	-	-
	PWR150 x 2	97	331	54	-	-	-	-	-	-	-	-
	PWR250 x 1	84	287	51	-	-	-	-	-	-	-	-
	PWR250 x 2	110	375	54	-	-	-	-	-	-	-	-
	PWR250 v2 x 1**	TBD	TBD	TBD	-	-	-	-	-	-	-	-
	PWR250 v2 x 2**	TBD	TBD	TBD	-	-	-	-	-	-	-	-
	PWR250-80 x 1	82	280	51	-	-	-	-	-	-	-	-
	PWR250-80 x 2	110	375	54	-	-	-	-	-	-	-	-
	PWR800, PWR800 v2 x 1	87	297	50	500	1706	50	370	24	12	6	

^{*} PWR800 and PWR800 v2 cannnot be used together in the same switch

Noise: tested to ISO7779; front bystander position

^{**} Available Q3/4 2024 (in APAC region only)

Power and Noise Characteristics

		NC	POE LOAD		FULL POE+ LOAD			MAX POE	POE SOURCING PORTS			
PRODUCT	PSUs INSTALLED	MAX POWER CONSUMP- TION (W)	MAX HEAT DISSIPATION (BTU/H)	NOISE (DBA)	MAX POWER CONSUMPTION (W)	MAX HEAT DISSIPATION (BTU/H)	NOISE (DBA)	POWER (W)	P0E (15.4W)	P0E + (30W)	P0E ++ (60W)	P0E ++ (90W)
	PWR800, PWR800 v2 x 2*	120	409	52	980	3344	52	740	24	24	12	
	PWR1200, PWR1200 v2 x 1	99	338	60	980	3344	60	740	24	24	12	
	PWR1200, PWR1200 v2 x 2	140	478	63	1840	6279	63	1480	24	24	24	
x530DP-52GHXm	PWR150 x 1	110	375	51	-	-	-	-	-	-	-	-
	PWR150 x 2	130	444	54	-	-	-	-	-	-	-	-
	PWR250 x 1	120	409	51	-	-	-	-	-	-	-	-
	PWR250 x 2	150	512	54	-	-	-	-	-	-	-	-
	PWR250 v2 x 1**	TBD	TBD	TBD	-	-	-	-	-	-	-	-
	PWR250 v2 x 2**	TBD	TBD	TBD	-	-	-	-	-	-	-	-
	PWR250-80 x 1	120	409	51	-	-	-	-	-	-	-	-
	PWR250-80 x 2	140	478	54	-	-	-	-	-	-	-	-
	PWR800, PWR800 v2 x 1	130	444	50	550	1877	50	370	24	12	6	
	PWR800, PWR800 v2 x 2*	160	546	52	1020	3481	52	740	48	24	12	
	PWR1200, PWR1200 v2 x 1	140	478	60	1010	3447	60	740	48	24	12	
	PWR1200, PWR1200 v2 x 2	170	580	63	1930	6586	63	1480	48	48	24	
x530-28GSX	Internal	62	212	36	-	-	-	-	-	-	-	-

^{*} PWR800 and PWR800 v2 cannnot be used together in the same switch

Noise: tested to ISO7779; front bystander position

Latency (microseconds)

PRODUCT		PORT SPEED (μs)								
PRODUCI	10MBPS	100MBPS	1GBPS	2.5GBPS	5GBPS	10GBPS				
x530-10GHXm	-	12.74	5.05	7.73	5.57	2.16				
x530-18GHXm	-	11.61	5.29	7.61	5.61	2.05				
x530-28GTXm	30.12	7.38	4.05	7.74	5.28	1.63				
x530-28GPXm	30.12	7.38	4.05	7.74	5.28	1.63				
x530-52GTXm	30.77	8.79	5.41	9.27	6.69	1.63				
x530-52GPXm	30.77	8.79	5.41	9.27	6.69	1.63				
x530DP-28GHXm	30.12	7.38	4.05	7.74	5.28	1.63				
x530DP-52GHXm	30.77	8.79	5.41	9.27	6.69	1.63				
x530-28GSX	-	12.20	4.02	-	-	3.11				

Standards and Protocols

AlliedWare Plus Operating System

Version 5.5.5

Authentication

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

Border Gateway Protocol (BGP)

BGP dynamic capability

BGP outbound route filtering

RFC 1772 Application of the Border Gateway Protocol (BGP) in the Internet

RFC 1997 BGP communities attribute

RFC 2385 Protection of BGP sessions via the TCP MD5 signature option
RFC 2439 BGP route flap damping

RFC 2439 BGP route flap damping

RFC 2545 Use of BGP-4 multiprotocol extensions for

IPv6 inter-domain routing

RFC 2858 Multiprotocol extensions for BGP-4
RFC 2918 Route refresh capability for BGP-4
RFC 3392 Capabilities advertisement with BGP-4
RFC 3882 Configuring BGP to block Denial-of-Service

(DoS) attacks

RFC 4271 Border Gateway Protocol 4 (BGP-4)

RFC 4360 BGP extended communities

BGP route reflection - an alte

1456 BGP route reflection - an alternative to full mesh iBGP

RFC 4724 BGP graceful restart

RFC 4893 BGP support for four-octet AS number space

RFC 5065 Autonomous system confederations

for BGP

Cryptographic Algorithms FIPS Approved Algorithms

Encryption (Block Ciphers):

► AES (ECB, CBC, CFB and OFB Modes)

► 3DES (ECB, CBC, CFB and OFB Modes) Block Cipher Modes:

► CCM

► CMAC

► GCM

► XTS

Digital Signatures & Asymmetric Key Generation:

► DSA

► ECDSA

► RSA

Secure Hashing:

► SHA-1

► SHA-2 (SHA-224, SHA-256, SHA-384. SHA-512) Message Authentication:

► HMAC (SHA-1, SHA-2(224, 256, 384, 512)

Random Number Generation:

▶ DRBG (Hash, HMAC and Counter)

Non FIPS Approved Algorithms

RNG (AES128/192/256) DES

MD5

Encryption (management traffic only)

FIPS 180-1 Secure Hash standard (SHA-1)
FIPS 186 Digital signature standard (RSA)
FIPS 46-3 Data Encryption Standard (DES and 3DES)

Ethernet Standards

IEEE 802.2 Logical Link Control (LLC)

IEEE 802.3 Ethernet

IEEE 802.3ab1000BASE-T

IEEE 802.3ae10 Gigabit Ethernet

IEEE 802.3af Power over Ethernet (PoE)
IEEE 802.3at Power over Ethernet up to 30W (PoE+)

^{**} Available Q3/4 2024 (in APAC region only)

IEEE 802.3	azEnergy Efficient Ethernet (EEE)	RFC 1212	Concise MIB definitions	RFC 4604	Using IGMPv3 and MLDv2 for source-
IEEE 802.3	bt Power over Ethernet up to 90W (PoE++) bz 2.5GBASE-T and 5GBASE-T ("multi-gigabit")	RFC 1213	MIB for network management of TCP/ IP-based Internets: MIB-II	RFC 4607	specific multicast Source-specific multicast for IP
	u 100BASE-X	RFC 1215	Convention for defining traps for use with the		•
	x Flow control - full-duplex operation z 1000BASE-X	RFC 1227	SNMP SNMP MUX protocol and MIB	•	hortest Path First (OSPF) ocal signaling
ILLL 002.0	2 TOODNOL X	RFC 1239	Standard MIB		authentication
Etherne	et Alliance	RFC 1724	RIPv2 MIB extension		d LSDB resync
	Class 6 Certified ²	RFC 2578	Structure of Management Information v2	RFC 1245	OSPF protocol analysis
Gen2 PoE (Class 8 Certified ³	RFC 2579	(SMIv2) Textual conventions for SMIv2	RFC 1246 RFC 1370	Experience with the OSPF protocol Applicability statement for OSPF
		RFC 2580	Conformance statements for SMIv2	RFC 1765	OSPF database overflow
6		RFC 2674	Definitions of managed objects for bridges	RFC 2328	OSPFv2
باللا			with traffic classes, multicast filtering and VLAN extensions	RFC 2370	OSPF opaque LSA option
EA Certifi	ed 2.0 EA Certified 2.0	RFC 2741	Agent extensibility (AgentX) protocol	RFC 2740 RFC 3101	OSPFv3 for IPv6 OSPF Not-So-Stubby Area (NSSA) option
	тм тм	RFC 2787	Definitions of managed objects for VRRP	RFC 3509	Alternative implementations of OSPF area
IPv4 Fe		RFC 2819	RMON MIB (groups 1,2,3 and 9)		border routers
RFC 768	User Datagram Protocol (UDP)	RFC 2863 RFC 3176	Interfaces group MIB sFlow: a method for monitoring traffic in	RFC 3623	Graceful OSPF restart
RFC 791 RFC 792	Internet Protocol (IP) Internet Control Message Protocol (ICMP)	111 0 3170	switched and routed networks	RFC 3630 RFC 4552	Traffic engineering extensions to OSPF Authentication/confidentiality for OSPFv3
RFC 793	Transmission Control Protocol (TCP)	RFC 3411	An architecture for describing SNMP	RFC 5329	Traffic engineering extensions to OSPFv3
RFC 826	Address Resolution Protocol (ARP)	DE0 0 440	management frameworks	RFC 5340	OSPFv3 for IPv6 (partial support)
RFC 894	Standard for the transmission of IP	RFC 3412	Message processing and dispatching for the SNMP	One III	of Comics (0 - 5)
RFC 919	datagrams over Ethernet networks Broadcasting Internet datagrams	RFC 3413	SNMP applications	-	of Service (QoS) p Priority tagging
RFC 919	Broadcasting Internet datagrams Broadcasting Internet datagrams in the	RFC 3414	User-based Security Model (USM) for	RFC 2211	Specification of the controlled-load network
	presence of subnets	DE0.0445	SNMPv3		element service
RFC 932	Subnetwork addressing scheme	RFC 3415	View-based Access Control Model (VACM) for SNMP	RFC 2474	DiffServ precedence for eight queues/port
RFC 950 RFC 951	Internet standard subnetting procedure Bootstrap Protocol (BootP)	RFC 3416	Version 2 of the protocol operations for the	RFC 2475 RFC 2597	DiffServ architecture DiffServ Assured Forwarding (AF)
RFC 1027	Proxy ARP		SNMP	RFC 2697	A single-rate three-color marker
RFC 1035	DNS client	RFC 3417	Transport mappings for the SNMP	RFC 2698	A two-rate three-color marker
RFC 1042	Standard for the transmission of IP	RFC 3418 RFC 3621	MIB for SNMP Power over Ethernet (PoE) MIB	RFC 3246	DiffServ Expedited Forwarding (EF)
RFC 1071	datagrams over IEEE 802 networks Computing the Internet checksum	RFC 3635	Definitions of managed objects for the	Danilia	any Fanturan
RFC 1122	Internet host requirements		Ethernet-like interface types		ncy Features 32 / Y.1344 Ethernet Ring Protection
RFC 1191	Path MTU discovery	RFC 3636	IEEE 802.3 MAU MIB	110 1 0.00	Switching (ERPS)
RFC 1256	ICMP router discovery messages	RFC 4022	MIB for the Transmission Control Protocol (TCP)		ag CFM Continuity Check Protocol (CCP)
RFC 1518	An architecture for IP address allocation with CIDR	RFC 4113	MIB for the User Datagram Protocol (UDP)		AXLink aggregation (static and LACP)
RFC 1519	Classless Inter-Domain Routing (CIDR)	RFC 4188	Definitions of managed objects for bridges		D MAC bridges s Multiple Spanning Tree Protocol (MSTP)
RFC 1542	Clarifications and extensions for BootP	RFC 4292	IP forwarding table MIB		w Rapid Spanning Tree Protocol (RSTP)
RFC 1591	Domain Name System (DNS)	RFC 4293 RFC 4318	MIB for the Internet Protocol (IP) Definitions of managed objects for bridges		adStatic and dynamic link aggregation
RFC 1812 RFC 1918	Requirements for IPv4 routers IP addressing	111 0 4010	with RSTP	RFC 5798	Virtual Router Redundancy Protocol version 3
RFC 2581	TCP congestion control	RFC 4502	RMON 2	RFC5880	(VRRPv3) for IPv4 and IPv6 Bidirectional Forwarding Detection (BFD)
		RFC 4560	Definitions of managed objects for remote		(/
IPv6 Fe		RFC 5424	ping, traceroute and lookup operations The Syslog protocol		g Information Protocol (RIP)
RFC 1981 RFC 2460	Path MTU discovery for IPv6 IPv6 specification	RFC 6527	Definitions of managed objects for VRRPv3	RFC 1058	Routing Information Protocol (RIP)
RFC 2464	Transmission of IPv6 packets over Ethernet	RFC 7011	IPFIX: a method of exporting IP flow data in a	RFC 2080 RFC 2081	RIPng for IPv6 RIPng protocol applicability statement
	networks		network for analysis	RFC 2082	RIP-2 MD5 authentication
RFC 2711	IPv6 router alert option	Multica	st Support	RFC 2453	RIPv2
RFC 3484 RFC 3587	Default address selection for IPv6 IPv6 global unicast address format		Router (BSR) mechanism for PIM-SM	0	Factoriae
RFC 3596	DNS extensions to support IPv6		solicitation	SSH remote	y Features e login
RFC 4007	IPv6 scoped address architecture		oing (IGMPv1, v2 and v3)	SSLv2 and	•
RFC 4193	Unique local IPv6 unicast addresses		oing fast-leave multicast forwarding (IGMP/MLD proxy)	TACACS+ A	Accounting, Authentication and Authorisation
RFC 4213	Transition mechanisms for IPv6 hosts and routers		ing (MLDv1 and v2)	IEEE 000 1	(AAA)
RFC 4291	IPv6 addressing architecture		M SSM for IPv6	IEEE OUZ.I	X Authentication protocols (TLS, TTLS, PEAP and MD5)
RFC 4443	Internet Control Message Protocol (ICMPv6)	RFC 1112 RFC 2236	Host extensions for IP multicasting (IGMPv1)	IEEE 802.1	X Multi-supplicant authentication
RFC 4861 RFC 4862	Neighbor discovery for IPv6 IPv6 Stateless Address Auto-Configuration	NFU 2230	Internet Group Management Protocol v2 (IGMPv2)		X Port-based network access control
111 0 4002	(SLAAC)	RFC 2710	Multicast Listener Discovery (MLD) for IPv6	RFC 2560	X.509 Online Certificate Status Protocol (OCSP)
RFC 5014	IPv6 socket API for source address selection	RFC 2715	Interoperability rules for multicast routing	RFC 2818	HTTP over TLS ("HTTPS")
RFC 5095	Deprecation of type 0 routing headers in IPv6	RFC 3306	protocols Unicast-prefix-based IPv6 multicast	RFC 2865	RADIUS authentication
RFC 5175 RFC 6105	IPv6 Router Advertisement (RA) flags option IPv6 Router Advertisement (RA) guard	0 0000	addresses	RFC 2866	RADIUS accounting
0 0 100	15 Hodest Advardsoment (HA) guard	RFC 3376	IGMPv3	RFC 2868 RFC 2986	RADIUS attributes for tunnel protocol support PKCS #10: certification request syntax
Manage	ement	RFC 3618	Multicast Source Discovery Protocol (MSDP)	111 0 2300	specification v1.7
	se MIB including AMF Plus MIB and SNMP traps	RFC 3810	Multicast Listener Discovery v2 (MLDv2) for IPv6	RFC 3546	Transport Layer Security (TLS) extensions
Optical DDI SNMPv1, v		RFC 3956	Embedding the Rendezvous Point (RP)	RFC 3579	RADIUS support for Extensible
	ABLink Layer Discovery Protocol (LLDP)	DEC	address in an IPv6 multicast address	RFC 3580	Authentication Protocol (EAP) IEEE 802.1x RADIUS usage guidelines
RFC 1155	Structure and identification of management	RFC 3973 RFC 4541	PIM Dense Mode (DM) IGMP and MLD snooping switches	RFC 3748	PPP Extensible Authentication Protocol (EAP)
DEC 1157	information for TCP/IP-based Internets	RFC 4541	Protocol Independent Multicast - Sparse	RFC 4251	Secure Shell (SSHv2) protocol architecture
RFC 1157	Simple Network Management Protocol (SNMP)		Mode (PIM-SM): protocol specification	RFC 4252	Secure Shell (SSHv2) authentication protocol
	,		(revised)		

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RFC 4253	Secure Shell (SSHv2) transport layer protocol	RFC 855	Telnet option specifications	RFC 3993	Subscriber-ID suboption for DHCP relay
RFC 4254	Secure Shell (SSHv2) connection protocol	RFC 857	Telnet echo option		agent option
RFC 5176	RADIUS CoA (Change of Authorization)	RFC 858	Telnet suppress go ahead option	RFC 4330	Simple Network Time Protocol (SNTP)
RFC 5246	Transport Layer Security (TLS) v1.2	RFC 1091	Telnet terminal-type option		version 4
RFC 5280	X.509 certificate and Certificate Revocation	RFC 1350	Trivial File Transfer Protocol (TFTP)	RFC 5905	Network Time Protocol (NTP) version 4
	List (CRL) profile	RFC 1985	SMTP service extension		
RFC 5425	Transport Layer Security (TLS) transport	RFC 2049	MIME	VLAN S	upport
	mapping for Syslog	RFC 2131	DHCPv4 (server, relay and client)	Generic VLA	AN Registration Protocol (GVRP)
RFC 5656	Elliptic curve algorithm integration for SSH	RFC 2132	DHCP options and BootP vendor extensions	IEEE 802.1a	ad Provider bridges (VLAN stacking, Q-in-Q)
RFC 6125	Domain-based application service identity	RFC 2616	Hypertext Transfer Protocol - HTTP/1.1	IEEE 802.10	Virtual LAN (VLAN) bridges
	within PKI using X.509 certificates with TLS	RFC 2821	Simple Mail Transfer Protocol (SMTP)	IEEE 802.1v	VLAN classification by protocol and port
RFC 6614	Transport Layer Security (TLS) encryption for	RFC 2822	Internet message format	IEEE 802.3	acVLAN tagging
	RADIUS	RFC 3046	DHCP relay agent information option (DHCP	Static VXLA	.N tunnels (part of RFC 7348)
RFC 6668	SHA-2 data integrity verification for SSH		option 82)		
		RFC 3315	DHCPv6 (server, relay and client)	Voice or	ver IP (VoIP)
Service	S	RFC 3633	IPv6 prefix options for DHCPv6	LLDP-MED	ANSI/TIA-1057
RFC 854	Telnet protocol specification	RFC 3646	DNS configuration options for DHCPv6	Voice VLAN	

Feature Licenses

NAME	DESCRIPTION	INCLUDES	STACK LICENSING		
AT-FL-x530-01	x530 premium license	 ▶ OSPFv2 (12,000 routes) ▶ BGP4/4+ (5,000 routes) ▶ PIMv4-SM, DM and SSM v4 ▶ VLAN double tagging (Q-in-Q) ▶ VLAN translation ▶ RIPng (5,000 routes) ▶ OSPFv3 (6,000 routes) ▶ MLDv1/v2 ▶ PIM-SMv6/SSMv6 ▶ RADIUS-Full ▶ VRF-Lite (64 domains) ▶ UDLD ▶ VXLAN 	One license per stack member		
AT-SW-APM10-1YR ^{5, 6}	Cumulative AMF Plus Master license	➤ AMF Plus Master license for up to 10 nodes for 1 year	► One license per stack		
AT-SW-APM10-5YR ^{5, 6}	Cumulative AMF Plus Master license	► AMF Plus Master license for up to 10 nodes for 5 years	➤ One license per stack		
AT-FL-x530-8032	ITU-T G.8032 license	► G.8032 ring protection ► Ethernet CFM	➤ One license per stack member		
AT-FL-x530-CP0E	Continuous PoE license	► Continuous PoE power for GPX models	► One license per stack member		
AT-FL-x530-MSTK	Mixed stacking license	► Stack x530 with x530L switches	► One license per stack member		
AT-FL-x530-0F13-1YR	OpenFlow license	► OpenFlow v1.3 for 1 year	Not supported on a stack		
AT-FL-x530-0F13-5YR	OpenFlow license	▶ OpenFlow v1.3 for 5 years	Not supported on a stack		
AT-SW-AWC10-1YR ⁷	Cumulative AWC license	► Autonomous Wave Control (AWC) license for up to 10 access points for 1 year	► One license per stack		
AT-SW-AWC10-5YR ⁷	Cumulative AWC license	► Autonomous Wave Control (AWC) license for up to 10 access points for 5 years	► One license per stack		
AT-SW-CB10-1YR-20228	Cumulative AWC-CB and AWC-SC license	➤ AWC Channel Blanket and AWC Smart Connect license for up to 10 access points for 1 year	➤ One license per stack		
AT-SW-CB10-5YR-20228	Cumulative AWC-CB and AWC-SC license	➤ AWC Channel Blanket and AWC Smart Connect license for up to 10 access points for 5 years	➤ One license per stack		

⁵ From AW+ version 5.5.2-2 onwards, AMF Plus licenses provide all standard AMF network management and automation features. They also enable the AMF Plus intent-based networking features menu in Vista Manager EX (from version 3.10.1 onwards)

Ordering Information

Switches

19 inch rack-mount brackets included

AT-x530-10GHXm-xx

8-port 100M/1/2.5/5G PoE++ stackable switch with 2 SFP+ ports and 2 fixed power supplies

AT-x530-18GHXm-xx

16-port 100M/1/2.5/5G PoE++ stackable switch with 2 SFP+ ports and a 2 fixed power supplies

AT-x530-28GTXm-xx

20-port 10/100/1000T and 4-port 100M/1/2.5/5G stackable switch with 4 SFP+ ports and 2 fixed power supplies

⁶ Purchase one license per 10 nodes (up to 40 nodes maximum)

⁷ 5 APs can be managed for free. Purchase one license per 10 additional APs (up to 40 APs maximum)

⁸ Channel Blanket and Smart Connect are not available as free services. Both an AWC-CB license and an AWC license are required for Channel Blanket and/or Smart Connect to operate. Purchase one AWC-CB license per 10 APs (up to 40 APs maximum).

AT-x530-28GPXm-xx

20-port 10/100/1000T and 4-port 100M/1/2.5/5G PoE+ stackable switch with 4 SFP+ ports and 2 fixed power supplies

AT-x530-52GTXm-xx

40-port 10/100/1000T and 8-port 100M/1/2.5/5G stackable switch with 4 SFP+ ports and 2 fixed power supplies

AT-x530-52GPXm-xx

40-port 10/100/1000T and 8-port 100M/1/2.5/5G PoE+ stackable switch with 4 SFP+ ports and 2 fixed power supplies

AT-x530DP-28GHXm-xx

20-port 10/100/1000T and 4-port 100M/1/2.5/5G PoE++ stackable switch with 4 SFP+ ports and dual hotswap PSU bays

AT-x530DP-52GHXm-xx

40-port 10/100/1000T and 8-port 100M/1/2.5/5G PoE++ stackable switch with 4 SFP+ ports and dual hotswap PSU bays

AT-x530-28GSX-xx

24-port 100/1000X SFP stackable switch with 4 SFP+ ports and 2 fixed power supplies

AT-RKMT-SL01

For DP model only

AT-BRKT-J22

Wall-mount kit for x530-28GTXm and 52GTXm

AT-VT-Kit3

Management Cable (USB to Serial Console)

Power Supplies and Fans

For x530DP models

AT-PWR150-xx

150W system power supply

AT-PWR150R-xx

150 system power supply (reverse airflow)

AT-PWR250-xx

250W system power supply

AT-PWR250-80

250W DC system power supply

AT-PWR250 v2-xx9

250W system power supply

AT-PWR250R v2-xx9

250W system power supply (reverse airflow)

AT-PWR800-xx¹⁰

800W system and PoE power supply

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

AT-PWR800 v2-xx10

800W system and PoE power supply

AT-PWR1200-xx

1200W system and PoE power supply

AT-PWR1200 v2-xx

1200W system and PoE power supply

AT-FAN10

Spare hot-swappable fan module

AT-FAN10R

Hot-swappable fan module (reverse airflow)

10G SFP+ Modules

Any 10G SFP+ module or cable can be used for stacking with the front panel 10G ports

AT-SP10SR

10GSR 850 nm short-haul, 300 m with MMF

AT-SP10SR/I

10GSR 850 nm short-haul, 300 m with MMF industrial temperature

AT-SP10LR

10GLR 1310 nm medium-haul, 10 km with SMF

AT-SP10LRa/I

10GLR 1310 nm medium-haul, 10 km with SMF industrial temperature

AT-SP10LR20/I

10GER 1310 nm long-haul, 20 km with SMF industrial temperature

AT-SP10ER40/I

10GER 1550 nm long-haul, 40 km with SMF industrial temperature

AT-SP10ZR80/I

10GER 1550 nm long-haul, 80 km with SMF industrial temperature

AT-SP10TM

1G/2.5G/5G/10G, 100m copper, TAA¹¹

AT-SP10BD10/I-12

10 GbE Bi-Di (1270 nm Tx, 1330 nm Rx) fiber up to 10 km industrial temperature, TAA^{11}

AT-SP10BD10/I-13

10 GbE Bi-Di (1330 nm Tx, 1270 nm Rx) fiber up to 10 km industrial temperature, TAA^{11}

AT-SP10BD20-12

10 GbE Bi-Di (1270 nm Tx, 1330 nm Rx) fiber up to 20 km, TAA 11

AT-SP10BD20-13

10 GbE Bi-Di (1330 nm Tx, 1270 nm Rx) fiber up to 20 km, TAA¹¹

AT-SP10BD40/I-12

10 GbE Bi-Di (1270 nm Tx, 1330 nm Rx) fiber up to 40 km industrial temperature, TAA¹¹

AT-SP10BD40/I-13

10 GbE Bi-Di (1330 nm Tx, 1270 nm Rx) fiber up to 40 km industrial temperature, TAA¹¹

AT-SP10TW1

1 meter SFP+ direct attach cable

AT-SP10TW3

3 meter SFP+ direct attach cable

1000Mbps SFP Modules

AT-SPTXc

100 m, 10/100/1000T SFP, RJ-45

AT-SPTX/I

100 m, 10/100/1000T SFP, RJ-45, Industrial temperature

AT-SPSX

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

AT-SPEX

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

AT-SPSX/I

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

AT-SPLX10

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

AT-SPLX10/I

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

AT-SPBD10-13

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

AT-SPBD10-14

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

AT-SPBD40-13/I

1000LX (LC) GbE single-mode Bi-Di (1310 nm Tx, 1490 nm Rx) fiber up to 40 km, industrial temperature

AT-SPBD40-14/I

1000LX (LC) GbE single-mode Bi-Di (1490 nm Tx, 1310 nm Rx) fiber up to 40 km, industrial temperature

AT-SPLX40

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

100Mbps SFP Modules

AT-SPFX/2

100FX multi-mode 1310 nm fiber up to 2 km (only supported on x530-28GSX)



⁹ Available in the APAC region only

¹⁰ PWR800 and PWR800 v2 cannot be used together in

¹¹ Trade Act Agreement compliant