



AT-8000S/24POE

Layer 2 Stackable Fast Ethernet Switch

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24 port stackable 10/100TX Power over Ethernet switch with 2 active SFP bays (unpopulated) and 2 standby 10/100/1000T ports (RJ-45)

Overview

One of a series of stackable switches from Allied Telesis, the AT-8000S/24POE provides high performance Layer 2 switching in an affordable fixed configuration platform combined with Power over Ethernet to provide power to edge devices including IP phones and wireless access points. This switch offers 24 10/100 ports, two fixed SFP Combo slots plus two integrated stacking connectors that deliver a total of 4Gbps stacking bandwidth. The stacking capability integrated into this platform is configured as a resilient ring topology designed to provide high reliability and simplified management for higher port density applications.

Combined Ethernet and Power for Branch Office and Wiring Closet Connectivity

Powerful line rate performance and stackability make this switch ideal for branch offices or the wiring closet of larger offices where power is needed for remote devices. The state-of-the-art QoS capability of this product ensures reliable delivery of advanced network services such as voice while effectively controlling the continually increasing traffic needs found in today's networks.

Easy Access Networking

Featuring an industry standard CLI and Allied Telesis' intuitive yet fully featured Web interface the advanced features of the AT-8000S/24POE are accessible to a wide range of system administrators. The well known CLI and Web interfaces significantly reduce learning time and minimize the cost of deployment.

Secure Management

Only authorized administrators can access the management interface of the 8000S series. Protocols such as SSL, SSH and SNMPv3 facilitate this protection of your network with local or remote connections.

Securing the Network Edge

To ensure the protection of your data, it is important to control access to your network. Protocols such as IEEE 802.1x port-based authentication guarantee that only known users are connected to the network. Unknown users who physically connect can be isolated to a predetermined part of your network offering guests such benefits as Internet access while ensuring the integrity of your private network data.

Gigabit and Fast Ethernet SFP Support

All switches in the 8000S family support both Gigabit and Fast Ethernet Small Form-factor Pluggables (SFPs). This makes the 8000S series an ideal family for environments where Gigabit fiber switches will be phased-in over time. The 8000S family allows for connectivity to the legacy 100FX hardware until it is upgraded to Gigabit. Support for both speeds of SFPs allows organizations to stay within budget as they migrate to faster technologies.

Key Features

Easy, Well Known Management

- Industry standard CLI
- Simple intuitive, fully featured Allied Telesis Web Interface
- Secure encrypted Web and CLI management with SSHv2 and SSL
- SNMP
- Two level access privileges

Power over Ethernet

- Provides standards-based IEEE 802.3af
 Power over Ethernet to all 24 10/100 ports
- Support for up to 24 class 2 powered devices at 7.3 watts
- Support for up to 12 class 3 powered devices at 15.4 watts

Affordable Truly Stackable 10/100 Switching Platform

- Single IP address stack management
- 4G resilient ring stacking architecture
- Across stack link aggregation
- Across stack VLAN configuration
- Across stack port mirroring
- Redundant standby stack master

All the QoS Needed in the Wiring Closet for Today's Voice and Data Networking

- Eight priorities assigned to four queues
- IEEE 802.1p for Layer 2 QoS
- DSCP (DiffServ) for Layer 3 QoS
- IEEE 802.Ip to DSCP remarking traffic ready for transport to the Layer 3 core of the network
- · Layer 2 and Layer 3 ACL

Securing the Network at its Most Vulnerable Point

- IEEE 802.1x and RADIUS network login: for advanced control of user authentication and accountability
- Guest VLAN: to ensure visitors or unauthorized users connect only to services defined by IT e.g. Internet
- TACACS+: for ease of management security administration
- Layer 2 and Layer 3 ACL
- Port MAC address security options

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IEEE 802.3ab

System Configuration

Dimensions 44cm x 25.7cm x 4.4cm (W x D x H) (17.32" x 10.11" x 1.76")

Weight 3.7kg

Mounting 19" rack-mountable hardware

included

System Capacity

64MB RAM 16MB flash memory 400Mhz CPU Up to 4,096 VLAN ID 8,000 MAC address

Performance

Wirespeed switching on all Ethernet ports for all packet

sizes

Throughput 9.52Mpps Switching capacity 12.8Gbps

MTBF 252,271.22 hours

Store and forward mode Non-blocking switch fabric Auto MDI/MDI-X

Port speed

10/100TX RJ-45 10/100/1000T RJ-45 100FX, 1000SX, 1000LX SFP slot

RS232 DB9 pin, male port

Internal power supply

Power over Ethernet

 Total power budget
 225W

 For switch
 12V/ 45W

 PoE budget
 50V/ 180W

PoE max supported IEEE 802.3af class 3

devices (15.4W): II ports

PoE max supported IEEE 802.3af class 2

devices (7.3W): 24 ports

IEEE 802.af Power over Ethernet

(mode B)

Interface Standards

General Standards

IEEE 802.1D Bridging

IEEE 802.3x BackPressure/ flow control

1000T

Redundancy Standards

IEEE 802.1D Spanning-Tree Protocol
IEEE 802.1W Rapid Spanning-Tree
IEEE 802.1s Multiple Spanning-Tree
IEEE 802.3ad LACP link aggregation

(with up to eight members per group and up to eight groups per

device)

Static port trunk

Quality of Services (QoS)

QoS in Layer 2 (IEEE 802.1p compliant Class of Service)

Traffic prioritization using IEEE 802.1p, ToS, DSCP fields Map IEEE 802.1p priorities to CoS queues to prioritize traffic at Egress

Strict Scheduling and Weighted Round Robin

VLANs

IEEE 802.1Q VLAN tagging Up to 256 VLANs Port-based VLANs MAC-based VLANs Private VLANs

GARP VLAN Registration Protocol (GVRP)

Multicast Standards

RFC 1112 IGMP snooping (ver. 1)
RFC 2236 IGMP snooping (ver. 2)
RFC 3376 IGMP snooping (ver. 3)*
RFC 3376 IGMP querier

*Future release

Management and Monitoring

WEB, CLI, Serial	
RFC 1157	SNMPv1/v2c
RFC 2570	SNMPv3
RFC 1213	MIB-II
RFC 1573	Evolution of MIB-II
RFC 1215	TRAP MIB
RFC 1493	Bridge MIB
RFC 2863	Interfaces group MIB
RFC 1643	Ethernet like MIB
RFC 1757	RMON 4 groups:
	Stats, History, Alarms, Events
RFC 2674	IEEE 802.1Q MIB
RFC 1866	HTML
RFC 2068	HTTP
RFC 854	Telnet
RFC 783	TFTP

IP address allocation

RFC 951/ RFC 1542 BootP/ DHCP

Manual

RFC 2030 SNTP, Simple Network Time Protocol

Syslog event
Dual software images

Stacking
Up to six units
Single system appearance
Single IP management
Back-up master

Full-duplex link with 2Gbps performance Link aggregation/trunking across stack Port mirroring across stack

VLAN across stack

Security

Management security: username and password protection

SSHv2 Telnet management
SSLv3 Web management
RFC 1492 TACACS+
RFC 2138 RADIUS Authentication

IEEE 802.1x Port-based network access control

Guest VLANs

RFC 2865 IEEE 802.1x port-based network

access control

MAC-based network access control

ACL - Access Control Lists

Fault Protection

Broadcast storm control

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Power Characteristics

Voltage input 100-240V AC
Voltage output 48vDC
Current 3.5A
Heat dissipation 768 3 RTII/hou

Heat dissipation 768.3 BTU/hour Clock frequency 166Mhz

Environmental Specifications

Operating temp 0°C to 45°C (32°F to 113°F)
Storage temp -25°C to 70°C (-13°F to 158°F)
Relative humidity 10% to 90% non-condensing
Storage humidity 5% to 95% non-condensing
Operating altitude Maximum 3,000m (9,843ft)

Electrical/ Mechanical Approvals

Safety UL 1950 (UL/cUL), EN60950 (TUV) EMI FCC Class A, EN55022 Class A,

> VCCI Class A, C-Tick, EN61000-3-2, EN61000-3-3

Immunity EN55024

RoHS compliant

Package Description

One AT-8000S/24POE switch

Power cord AC Rack-mount kit

Rubber feet for desktop installation

RS232 management cable

Stacking cable User guide in CD

Country of Origin

China

Ordering Information

AT-8000/24POE-xx

24 port stackable 10/100TX PoE Layer 2 switch with 2 active SFP bays (unpopulated) and 2 standby 10/100/1000T ports (RJ-45)

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

Accessories

Small Form Pluggables (SFPs)

AT-SPFX/2

Multi-mode Fiber, 2km, 100FX, SFP, 1310nm

AT-SPFX/15

Single-mode Fiber, 15km, 100FX, SFP, 1310nm

AT-SPFX/40

Single-mode Fiber, 40km, 100FX, SFP, 1310nm

AT CPTY

Copper, GbE Small Form-factor Pluggable (SFP)

AT-SPSX

Multi-mode Fiber, GbE Small Form-factor Pluggable (SFP)

AT-SPLX10

Single-mode Fiber, 10km, GbE SFP, 1310nm

AT-SPLX40

Single-mode Fiber, 40km, GbE SFP, 1310nm

AT-SPLX40/1550

Single-mode Fiber, 40km, GbE SFP, 1550nm

AT-SPZX80

Single-mode Fiber, 80km, GbE SFP, 1550nm

AT-SPZX80/xxxx

Single-mode Fiber, CWDM, 80km GbE SFP

CWDM wavelengths: Where xxxx = 1470

> 1510 1530

1550 1570 1590

1610

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