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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 802.1 p for Layer 2 QoS
- DSCP (DiffServ) for Layer 3 QoS
- IEEE 802.1p 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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System Configuration

Dimensions	44cm x 25.7cm x 4.3cm	
(W x D x H)	(17.3" x 10.1" x 1.7")	
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 IMbit Packet buffer memory

Performance

Wirespeed switching on	all Ethernet ports for	all packet
sizes		
Throughput	9.52Mpps	
Switching capacity	12.8Gbps	

194,113 hours

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

Latency 85.39 µsec IOMbit 100Mbit 17.76 usec 1000Mbit 2.72 µsec

Port speed 10/100TX R|-45 10/100/1000T R|-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/ 185W
PoE max supported	
IEEE 802.3af class 3	
devices (15.4W):	12 ports
PoE max supported	
IEEE 802.3af class 2	
devices (7.3W):	24 ports
IEEE 802.af	Power over Ethernet
	(mode B)

Interface Standards

IEEE	802.3	IOT	
IEEE	802.3u	100TX and	IOOFX
IEEE	802.3z	1000SX	
IEEE	802.3ab	1000T	

General Standards

IEEE 802.1D Bridging IEEE 802.3x BackPressure/ flow control

Redundancy Standards

IEEE 802.1D	Spanning-Tree Protocol
IEEE 802.1W	Rapid Spanning-Tree
IEEE 802.1s	Multiple Spanning-Tree
BPDU guard ¹	
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
Option to	forward/filtering of unregistered MC frames'

IPv6

IPv6	QoS
IPv6	ACL
IPv6	Host
RFC 2461	IPv6 neighbor discovery
RFC 2463	ICMPv6: Internet Control Message
	Protocol version 6
RFC 1981	Path MTU discovery
Dual-stack IPv4/IP	v6 protocol
IPv6	Tunnelling over IPv4
IPv6	Network management
IPv6	Applications: WEB/SSL Telnet
	server/SSH, AAA/Radius, Management
	ACLs, SNTP, PING, TFTP/Copy, Syslog

Management and Monitoring

i lanagerrie	
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 2819	RMON 4 groups
RFC 2674	IEEE 802.1Q MIB
RFC 1866	HTML
RFC 2068	HTTP
RFC 854	Telnet
RFC 783	TFTP
LLDP	
IEEE 802.1ab	
LLDP-MED ¹	

IP address allocation RFC 951/ RFC 1542 BootP/ DHCP DHCP snooping 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

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Security

Management secur	ity: 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		
IEEE 802.1x	Dynamic VLAN ¹		
IEEE 802.1x	RADIUS accounting		
IEEE 802.1x	Multi-session mode		
IEEE 802.1x	Action on violation ¹		
IEEE 802.1x	Single-host violation		
IEEE 802.1x	Guest VLAN timeout		
IEEE 802.1x	Authentication not-required ¹		
Security login banner'			
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

Power Characteristics

Voltage input	100-240V AC
Voltage output	48vDC
Current	3.5A
Power consumption	236W ²
Power supply efficiency	72.67%
Heat dissipation	768.3 BTU/hour
Clock frequency	l 66Mhz
Acoustic noise	50.8dB

Environmental Specifications

Operating temp0°C to 40°C (32°F to 104°F)Storage temp-25°C to 70°C (-13°F to 158°F)Relative humidity10% to 90% non-condensingStorage humidity5% to 95% non-condensingOperating altitudeMaximum 3,000m (9,843ft)

Electrical/ Mechanical Approvals

UL 1950 (UL/cUL), EN60950 (TUV)
FCC Class A, EN55022 Class A,
VCCI Class A, C-Tick,
EN61000-3-2, EN61000-3-3
EN55024

Package Description

One AT-80005/24POE switch Power cord AC Rack-mount kit Rubber feet for desktop installation RS232 management cable Stacking cable Install guide and user guide in CD and at www.alliedtelesis.com

Country of Origin China

Ordering Information

AT-8000S/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-SPTX Copper, GbE Small Form-factor Pluggable (SFP)

AT-SPSX Multi-mode Fiber, GbE Small Form-factor Pluggable (SFP) 850nm

AT-SPL×10 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

¹ New feature on AT-S94 version 3.0.0.32
 ² Worst case load condition for actual measured power on sample unit

USA Headquarters | 19800 North Creek Parkway | Suite 100 | Bothell | WA 98011 | USA | T: +1 800 424 4284 | F: +1 425 481 3895 European Headquarters | Via Motta 24 | 6830 Chiasso | Switzerland | T: +41 91 69769.00 | F: +41 91 69769.11 Asia-Pacific Headquarters | 11 Tai Seng Link | Singapore | 534182 | T: +65 6383 3832 | F: +65 6383 3830

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