

AT-8000S/24 Layer 2 Stackable Fast Ethernet Switch

AT-8000S/24

24-port stackable 10/100TX L2 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/24 provides high performance Layer 2 switching in an affordable fixed configuration platform. This switch offers 24 10/100 ports, two fixed 1Gbps SFP 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.

Ideal 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. The state-of-theart 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/24 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 AT-8000S series. Protocols such as SSL, SSH and SNMP v3 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 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 pre-determined part of your network offering guests such benefits as Internet access while ensuring the integrity of your private network data.

Key Features

Easy, Well Known Management

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- Industry Standard CLI
- Simple intuitive, full features Allied Telesis Web Interface
- $\,$ Secure encrypted WEB and CLI management with SSH v2 and SSL

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SNMP

Affordable Truly Stackable 10/100 Switching Platform

- Single IP address Stack management
- 4Gig 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

• 8 Priorities assigned to 4 queues

- 802.1p for Layer 2 QoS
- DSCP (Diffserv) for Layer 3 QoS
- 802.1 p to DSCP remarking traffic ready for transport to the Layer 3 core of the network

Securing the Network at its Most Vulnerable Point

- 802.1× 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

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System Configuration

WxDxH	440mm x 257mm x 43.2mm
	(17.32" x 10.11" x 1.70")
Weight	3.15kg (6.94lb)
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

Wire speed switching on all Ethernet ports 14,880pps for 10Mbps Ethernet 148,800pps for 100Mbps fast Ethernet 1,488,000pps for 1000Mbps Gigabit Ethernet

Ethernet throughput:	9.5Mpps
Chipset switching capacity	12.8Gbps
MTBF	413,554 Hours
Store and forward mode Non blocking switch fabric Auto-MDI/MDI-X	
Port speed: 10/100-TX 10/100/1000TX 100-FX, 1000-SX, 1000-LX RS232 Internal power supply and fan	RJ-45 RJ-45 SFP slot DB9 pin, male port

Interface Standards

802.3	10Base-T & 10Base-FL
802.3u	100Base-TX & 100base-FX
802.3z	1000base-SX
802.3ab	1000Base-T

General Standards

802.1d	Bridging		
802.3x	BackPressure/	Flow	Control

Redundancy Standards

802.ID	Spanning Tree Protocol
802.IW	Rapid Spanning Tree
802.ls	Multiple Spanning Tree
802.3ad	LACP Link Aggregation
	(with up to 8 members per group
	and up to 8 groups per device)
Static port trunk	,

Quality of Services (QoS)

QoS in layer 2 (802.1p compliant Class of Service) Traffic prioritization using 802.1p, ToS, DSCP fields Map 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

RFCIII2	IGMP	snooping	(ver. I)
RFC2236	IGMP	snooping	(ver. 2)
RFC 3376	IGMP	snooping	(ver.3)*

* Future Release

Management and Monitoring

WEB, CLI, Serial	
RFC 1157	SNMPv1/v2c
RFC 2570	SNMPv3
RFCI2I3	MIB-II
RFC 1215	TRAP MIB
RFCI493	Bridge MIB
RFC 2863	Interfaces group MIB
RFC 1643	Ethernet like MIB
RFC 1757	RMON 4 groups:
	Stats, History, Alarms, Events
RFC 2674	802.IQ MIB
RFC 1866	HTML
RFC 2068	HTTP
RFC 854	Telnet
RFC 783	TFTP

IP address allocation RFC 951/ RFC 1542 Manual

BootP/ DHCP

RFC 2030 SNTP, Simple Network Time Protocol Syslog Event Dual Software Images

Stacking Up to 6 units Single chip appearance Single IP management Backup master Full duplex link with 2Gbps performance Trunking across stack Port mirroring across stack VLAN across stack

Security

 Management Security: user name and password protection

 SSHv2 for Telnet management

 SSLv3 for WEB management

 RFC 1492
 TACACS+

 RFC 2138
 RADIUS Authentication

 IEEE 802.1x
 Port-based network access control

 Guest VLANs
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Fault Protection

Broadcast Storm Control

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Power Characteristics

Voltage input	100- 240VAC
Voltage output	I 2VDC
Current	1.5A
Power consumption	54W
Heat dissipation	184.41 BTU/hour
Clock Frequency	I 66MHz

Environmental Specifications

Operating Temp	0°C to 45°C (32F to 113F)
Storage Temp	-25°C to 70°C (-13F to 158F)
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-80005/24 switch Power cord AC Rackmount kit Rubber feet for desktop installation RS232 management cable Stacking cable Install guide and user guide in CD Limited Lifetime warranty card

Country of Origin

China

Ordering Information

AT-8000S/24-xx

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Where xx = 10 for U.S. power cord 20 for no power cord 30 for U.K. power cord 40 for Australia power cord 50 for Europe power cord

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