

## AT-8000S/24

### Layer 2 Stackable Fast Ethernet Switch



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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-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/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

- Industry Standard CLI
- Simple intuitive, full features Allied Telesis Web Interface
- Secure encrypted WEB and CLI management with SSH v2 and SSL
- 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
- 802.1p to DSCP remarking traffic ready for transport to the Layer 3 core of the network

##### Securing the Network at its Most Vulnerable Point

- 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*

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### System Configuration

W x D x H	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	RJ-45
10/100/1000TX	RJ-45
100-FX, 1000-SX, 1000-LX	SFP slot
RS232	DB9 pin, male port
Internal power supply and fan	

### 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

802.1D	Spanning Tree Protocol
802.1W	Rapid Spanning Tree
802.1s	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)  
 IEEE 802.3ac

### Multicast Standards

RFC1112	IGMP snooping (ver. 1)
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
RFC1213	MIB-II
RFC 1215	TRAP MIB
RFC1493	Bridge MIB
RFC 2863	Interfaces group MIB
RFC 1643	Ethernet like MIB
RFC 1757	RMON 4 groups: Stats, History, Alarms, Events
RFC 2674	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 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

### Fault Protection

Broadcast Storm Control

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

### Power Characteristics

Voltage input	100- 240VAC
Voltage output	12VDC
Current	1.5A
Power consumption	54W
Heat dissipation	184.41 BTU/hour
Clock Frequency	166MHz

### 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-8000S/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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