

AT-8000GS/24POE De CONTRACTOR SUBJECTION DE CONTRACTOR DE

One of a series of high performance Gigabit Ethernet stackable switches from Allied Telesis, the AT-8000GS/24POE provides high performance Layer 2 switching in an affordable fixed configuration platform combined with Power over Ethernet for edge devices such as IEEE 802.11n access points, IP phones or IP cameras.

This switch offers 24 × 10/100/1000 ports, with four combo IGbps SFP slots. Two integrated stacking connectors deliver a total of 20Gbps 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. Support for jumbo Ethernet frames enables higher throughput of time sensitive data.

Switches

Ideal Where Gigabit Power over Ethernet is Needed

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-8000GS/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 8000GS 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 802.1× 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 featured Allied Telesis Web Interface
- » Secure, encrypted Web and CLI management with SSHv2 and SSL
- » SNMP
- » Two levels of access privileges

Power over Ethernet

- » Provides standards-based IEEE 802.3af
- » Power over Ethernet to all 24 10/100/1000

Affordable, Truly Stackable 10/100/1000 Switching Platform

- » Single IP address stack management
- » 20 Gigabit 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 priority assigned to four queues
- » IEEE 802.1p 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 Access Control List (ACL)

Securing the Network at its Most Vulnerable Point

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

Access Control Lists (ACLs)

» Access Control Lists enable inspection of incoming frames and classify them based on various criteria. Specific actions can then be applied to these frames in order to more effectively manage the network traffic. Typically ACLs are used as a security mechanism, either permitting or denying entry (hence the name Access Control) for frames in a group, but ACLs can also be applied to QoS.

Supported ACL types are:

- IP ACLs: applicable to IP packet type. All
- classification fields are related to IP packets.
- MAC ACLs: classification fields are based on Layer 2 fields.

AT-8000GS/24POE | Layer 2 Stackable Gigabit Power over Ethernet Switch

System Capacity

128MB RAM 16MB flash memory Up to 4,096 VLAN ID 8K MAC addresses Packet buffer memory: 3Mbit

Performance

Wirespeed switching on all Ethernet ports for all packet sizes including jumbo frames up to 10Kbytes Throughput up to: 50.6Mpps Switching capacity: 68Gbps Switch fabric speed: 88Gbps

MTBF: 80,000 hours

Auto-negotiation, duplex, MDI/MDI-X

Port speed:

10/100TX	RJ-45
100FX	SFP support
10/100/1000T	RJ-45
1000SX, 1000LX	SFP slot
Console RS232	RJ-45 connector
Latency: 10Mbit 100Mbit 1000Mbit	77.21 usec 9.47 usec 2.23 usec

Environmental Specifications

Operating temperature: 0°C to 40°C (32°F to 104°F) Storage temperature: 25°C to 70°C (-13°F to 158°F) Operating humidity: 5% to 80% non-condensing Storage humidity: 5% to 95% non-condensing Max operating altitude: 3,000 m (9,843 ft)

Quality of Service (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

Management and Monitoring

Inet, SSH, serial console port
SNMPv1/v2c
SNMPv3
MIB-II
Evolution of MIB-II
TRAP MIB
Bridge MIB
Interfaces group MIB
Ethernet like MIB
RMON 4 groups:
Stats, History, Alarms, Events
IEEE 802.1Q MIB
HTML
HTTP
Telnet
TFTP
1

IP address allocation

RFC 951/ RFC 1542 BootP/ DHCP manual DHCP snooping RFC 2030 SNTP. Simple Network Time Protocol Syslog event Dual software images

Stacking:

Up to six units with a mix of AT-8000GS/24, AT-8000GS/24POE and AT-8000GS/48 can be stacked together in any combination using a 1m HDMI stacking cable Single system appearance Single IP management Backup master Redundant ring stacking topology with 20Gbps performance Link aggregation/trunking across stack Port mirroring across stack VLAN across stack

VLAN

IEEE 802.1Q VLAN tagging Up to 256 active VLANs Port-based VLANs MAC-based VLANs Private VLANs GARP VLAN Registration Protocol (GVRP)

General Standards

IEEE 802.1D Bridging IEEE 802.3x BackPressure/flow control

Interface Standards

IFFF 802.3 10T and 10FL IEEE 802.3u 100TX IEEE 802.3z 1000SX IEEE 802.3ab 1000T

Redundancy Standards

IEEE 802.1D Spanning-Tree Protocol with optional fast link capability IEEE 802.1W Rapid Spanning-Tree IEEE 802.1s Multiple Spanning-Tree BPDU guard IEEE 802.3ad LACP link aggregation (with up to eight members per group and up to eight groups per device) Static port trunk

IP Multicast

RFC 1112 IGMP snooping (ver. 1) BEC 2236 IGMP snooping (ver. 2) RFC 3376 IGMP snooping (ver. 3) RFC 3376 IGMP querier Support for 256 multicasts Unregistered multicasts are dropped by default

Security / IEEE 802.1x

Management security: username and password protection SSHv2 for Telnet management SSLv3 for Web management RFC 1492 TACACS+ RFC 2618 **RADIUS** authentication IEEE 802.1x Dynamic VLAN IEEE 802.1x RADIUS accounting IEEE 802.1x Multi-session mode IEEE 802.1x Action on violation IFFF 802.1x Single-host violation IEEE 802.1x Guest VLAN timeout IFFF 802.1x Authentication not-required Security login banner RFC 2865 IEEE 802.1x port-based network access control MAC-based network access control Guest VI ANs ACL - Access Control Lists (max 256 entries)

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 IP	v4/IPv6 protocol
IPv6	Tunnelling over IPv4
IPv6	Network management
IPv6	Applications: WEB/SSL Telnet server/SSH,
	AAA/Radius, Management ACLs, SNTP, PING,
	TFTP/Copy, Syslog

Fault Protection

Broadcast storm control

Electrical/ Mechanical Approvals

Safety	UL 1950, CSA22.2 no.950,
	TUV (EN60950), CE
EMI	FCC Class A, EN55022 Class A,
	VCCI Class A, C-TICK
EMC	EN61000-3-2, EN61000-3-3
Immunity	EN50082-1, EN55024
RoHS compliant	6/6 compliant
Environmental	
Standard	ATI QLT 1220

Package Description

AT-8000GS/24POE switch AC power cord Rack mount kit Rubber feet for desktop installation RS232 management cable (RJ-45) HDMI stacking cable (1m) Install Guide and CLI users guide available at alliedtelesis.com

Country of Origin China

Physical Specifications

Dimensions (W x D x H): 44 x 25.7 x 4.32 cm (17.32 x 10.16 x 1.7 in) Weight: 3.50 kg / 7.7 lb

Mounting: 19" rack-mountable hardware included

Power Characteristics

Voltage input: 100-240V AC / 50-60Hz Current: 3.25A Acoustic noise: 61dB Maximum heat dissipation: 715.65 BTU/hour

AT-8000GS/24POE | Layer 2 Stackable Gigabit Power over Ethernet Switch



Ordering Information

Gigabit Ethernet Switches

AT-8000GS/24POE-xx

24-port stackable 10/100/1000T Power over Ethernet Layer 2 switch with four standby SFP bays (unpopulated)

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 Small Form Pluggable Optics Modules

AT-SPFX/2 SFP, MMF, 100Mbps, 2 km, 1310 nm, LC

AT-SPFX/I5 SFP, SMF, 100Mbps, 15 km, 1310 nm, LC

AT-SPFX/40 SFP, SMF, 100Mbps, 40 km, 1310 nm, LC

AT-SPBD10-13 SFP, SMF, 1000Mbps, 10 km, 1310/1490 nm, LC-BiDi

AT-SPBD10-14 SFP, SMF, 1000Mbps, 10 km, 1490/1310 nm, LC-BiDi

AT-SPSX SFP, MMF, 1000Mbps, 220 / 500 m, 850 nm, LC

AT-SPLX10 SFP, SMF, 1000Mbps, 10 km, 1310 nm, LC

AT-SPLX40 SFP, SMF, 1000Mbps, 40 km, 1310 nm, LC

AT-SPZX80

SFP, SMF, 1000Mbps, 80 km, 1550 nm, LC

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the solution : the network

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