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# GS950 Series

## Gigabit WebSmart Edge Switches

The Allied Telesis GS950 Series of WebSmart network switches demonstrates the Allied Telesis commitment to environmentally-friendly processes and products, minimizing power consumption through the use of a high efficiency power supply and a low power chipset. Featuring PoE+, GS950 Series switches at the network edge are the ideal cost-effective solution for small businesses.





## Ease of management and high performance

These advanced Allied Telesis WebSmart switches combine the simplicity of unmanaged switches with the performance and reliability of managed switches. This provides a cost-effective, secure and reliable solution for integrated management at the network edge. With user-friendly web-based management, the GS950 Series is ideal for integrating simple management and security into your network solution.

## Power over Ethernet (PoE)

The GS950/8POE, 10PS, 16PS, 28PS, 48PS switches are available in PoE configurations. What's more, the GS950/10PS, 16PS, 28PS, 48PS switches support PoE+ (IEEE 802.3at), with the capability of delivering up to 30W per port.

PoE allows users to connect and power a device using a single Ethernet cable, thus eliminating the need for additional power outlets and simplifying installation. Furthermore, this system is unaffected by any local variance in AC power, offering a standardized power infrastructure.

## **Key Features**

#### **VLAN**

- ▶ IEEE 802.1Q tagged
- ▶ Port-based
- ▶ Up to 256 groups

#### **Quality of Service Classification**

- ▶ IEEE 802.1p tagging
- Port-based priority
- ► Four priority queues per port

## IP Multicast Support (IPv4)

- ▶ IGMP snooping (v1/v2)
- ► Static multicast group (up to 256)
- ► Spanning-Tree, IEEE 802.1d/w/s

#### IEEE 802.3ad Link Aggregation

- Manua
- ▶ LACP (not on GS950/8, 16, 24, 48)

## IEEE 802.1x Port-based, MAC-based and Network Access Control

- ► Local authentication server (MD5 only)
- Remote authentication through RADIUS
- ▶ Dynamic VLAN assignment
- ▶ RADIUS Client

#### Othe

- ► IEEE 802.3x flow control or HOL\* blocking prevention (\* when flow control is off)
- ▶ Port mirroring
- ▶ Destination MAC filtering
- ▶ Ingress/egress rate limiting
- Broadcast storming control
- ▶ 100 FX SFP support
- ▶ Jumbo Frames up to 10K

## **Management Features**

- Web-based configuration
- ▶ SNMP trap view
- ▶ LLDP
- ▶ Firmware upgrade by FTP and HTTP
- Configuration backup/restore by FTP and HTTP
- Factory reset
- Password access control and restricted
- ▶ IP access list
- SNMPv1/v2c/v3
- ▶ DHCP client
- Syslog support
- System time configuration (SNTP, manual)
- Statistics Charts in Web

## **MIBs**

- ▶ RFC 1213 MIB-II
- ▶ RFC 1643 Ethernet MIB
- ▶ RFC 1493 Bridge MIB
- ▶ RFC 2131 DHCP client
- Private Enterprise MIB (Allied Telesis provides the spec)

## **RMON Groups (1, 2, 3, 9)**

- ▶ Stats
- History
- Alarms
- Events

## ACL

▶ 240 entries (shared)



## **Specifications**

PRODUCT	SWITCHING CAPACITY	FORWARDING RATE	HEIGHT	WIDTH	DEPTH	WEIGHT
AT-GS950/8	16Gbps	11.90Mpps	44 mm (1.73 in)	280 mm (11.02 in)	180 mm (7.09 in)	1.50 Kg (3.30 lbs)
AT-GS950/8P0E	16Gbps	11.90Mpps	43 mm (1.70 in)	330 mm (13.00 in)	230 mm (9.06 in)	2.54 Kg (5.60 lbs)
AT-GS950/10PS	20Gbps	14.88Mpps	44 mm (1.73 in)	330 mm (13.00 in)	200 mm (7.90 in)	1.90 Kg (4.20 lbs)
AT-GS950/16	32Gbps	23.40Mpps	44 mm (1.73 in)	330 mm (13.00 in)	200 mm (7.90 in)	2.10 Kg (4.60 lbs)
AT-GS950/16PS	32Gbps	23.80Mpps	44 mm (1.73 in)	430 mm (17.00 in)	250 mm (9.80 in)	3.56 Kg (7.85 lbs)
AT-GS950/24	48Gbps	35.70Mpps	44 mm (1.73 in)	330 mm (13.00 in)	200 mm (7.90 in)	2.30 Kg (5.10 lbs)
AT-GS950/28PS	56Gbps	41.65Mpps	44 mm (1.73 in)	450 mm (17.71 in)	250 mm (9.80 in)	3.60 Kg (7.93 lbs)
AT-GS950/48	96Gbps	71.20Mpps	43.2 mm (1.70 in)	444 mm (17.48 in)	257 mm (10.12 in)	4.10 Kg (9.00 lbs)
AT-GS950/48PS	96Gbps	71.42Mpps	44 mm (1.73 in)	440 mm (17.32 in)	430 mm (17.00 in)	6.62 Kg (14.60 lbs)

#### **Power characteristics**

PRODUCT	MAXIMUM PoE POWER	MAXIMUM POE PORTS SUPPORTED			NOICE	VOLTAGE	EDEOUENOV
		CLASS 2	CLASS 3	CLASS 4	NOISE	VOLTAGE	FREQUENCY
AT-GS950/8	-	-	-	-	Fanless	100-240V AC	50-60Hz
AT-GS950/8P0E	61.6W	4	4	-	Fanless	90-240V AC	50-60Hz
AT-GS950/10PS	75W	8	4	2	Fanless	100-240V AC	50-60Hz
AT-GS950/16	-	-	-	-	Fanless	100-240V AC	50-60Hz
AT-GS950/16PS	185W	16	12	6	Low-speed 33 dB High-speed 47.1 dB	100-240V AC	50-60Hz
AT-GS950/24	-	-	-	-	Fanless	100-240V AC	50-60Hz
AT-GS950/28PS	185W	24	12	4	Low-speed 35.6 dB High-speed 49.1 dB	100-240V AC	50-60Hz
AT-GS950/48	-	-	-	-	Low-speed 33 dB High-speed 47.1 dB	100-240V AC	50-60Hz
AT-GS950/48PS	370W	24	24	12	Low-speed 38.3 dB High-speed 51.6 dB	100-240V AC	50-60Hz

## **Performance**

14,880pps for 10Mbps Ethernet 148,800pps for 100Mbps Ethernet 1,488,000pps for 1000Mbps Ethernet

MAC addresses: VLAN IDs available: 4K Max VI ANs: 256 1MB Packet buffer: DRAM: 64MB Flash: 16MB

## Interface connections

10/100/1000T: R.I-45

100TX, 100FX, 1000T, SFP:

1000SX or 1000LX

## **Technical specifications**

Wall-mount or desktop

All units come with wall /19 in rack-mount brackets

## **Environmental specifications**

Operating temperature: 0°C to 40°C (32°F to 104°F) Non-operating temperature: -25°C to 70°C (-13°F to 158°F) 5% to 90% non-condensing Operating humidity: 5% to 95% non-condensing Storage humidity:

Vibration: IEC 68-2-36 Shock: IEC 68-2-29 IEC 68-2-32 Drop: Flammability: UI 94V-0

(GS950/10PS, 16PS, 28PS,

48PS only)

## **Environmental compliance**

RoHS China RoHS WFFF

(GS950/10PS, 16PS, 28PS, 48PS only) Eu-RoHS

#### Electrical/mechanical approvals GS950/8, 8P0E, 16, 24, 48

UL 1950 FCC/EN55022 Class A VCCI Class A C-Tick EN60950 (TUV) EN55024 CF CSA / CUL

## GS950/10PS, 16PS, 28PS, 48PS

UL60950-1 2nd edition (UL) FCC/EN55022/CISPR 22 Class A VCCI Class A

C-Tick EN60950 (TUV) EN55024 CE Mark CSA / CUL

## Standards and compliance

RFC792 **ICMP** RFC1213 MIB-II RFC1350 **TFTP** RFC1492 **TACACS** SNTP (Simple Network Time RFC1769 Protocol) RFC2131 DHCP client RFC2236 **IGMP** RFC2461 NDP (Neighbor Discovery protocol) RFC2616 HTTP RFC2866 **RADIUS** RFC4330 SNTP RFC5343 SNMP RFC6101 SSL IEEE 802.3 CSMA/CD IEEE 802.3i 10T IEEE 802.3u 100TX IEEE 802.3z 1000SX/LX IEEE 802.3z/ab 1000T IEEE 802.3x Flow control IEEE 802.1p Prioritization (four queues) IEEE 802.1x Authentication IEEE 802.1x

Local authentication server(MD5) IEEE 802.1x Remote authentication through

**RADIUS** 

IEEE 802.1x Dynamic VLAN assignment IEEE 802.1x MAC-based authentication

IEEE 802.1x **RADIUS** IEEE 802.1d Bridging

## GS950 Series | Gigabit WebSmart Edge Switches



IEEE 802.3ad Link aggregation
IEEE 802.3ad Port trunking and LACP
IEEE 802.1Q Tagged VLAN
IEEE 802.1d Spanning-Tree
IEEE 802.1w Rapid Spanning-Tree

IEEE 802.1w Rapid Spanning-Tree IEEE 802.1s Multiple Spanning-Tree IEEE 802.3af PoE

IEEE 802.3at PoE+ IEEE 802.3az Energy Efficient Ethernet













## **Ordering information**

## AT-GS950/8-xx

8-port 10/100/1000T eco-friendly WebSmart switch with 2 SFP combo ports

#### AT-GS950/16-xx

16-port 10/100/1000T eco-friendly WebSmart switch with 2 SFP combo ports

#### AT-GS950/24-xx

24-port 10/100/1000T eco-friendly WebSmart switch with 4 SFP combo ports

#### AT-GS950/48-xx

48-port 10/100/1000T eco-friendly WebSmart switch with 4 SFP combo ports

## AT-GS950/8POE-xx

8 port 10/100/1000T PoE fanless WebSmart switch with 2 SFP combo ports

#### AT-GS950/10PS-xx

10-port 10/100/1000T WebSmart switch with 2 SFP combo ports and PoE+

## AT-GS950/16PS-xx

16-port 10/100/1000T WebSmart switch with 2 SFP combo ports and PoE+

## AT-GS950/28PS-xx

24-port 10/100/1000T WebSmart switch with 4 SFP ports and PoE+

## AT-GS950/48PS-xx

48-port 10/100/1000T WebSmart switch with 4 SFP combo ports and PoE+

#### Package contents

Switch unit Rack-mount brackets and screws Power cord Rubber feet User manual/install guide on CD (GS950/8POE only)

#### Small Form Pluggable Optics Modules

#### AT-SPSX

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

#### AT-SPLX10

SFP, SMF, 1000Mbps, 10 km, 1310 nm, LC

#### AT-SPFX/2

SFP, MMF, 100Mbps, 2 km, 1310 nm, LC

#### AT-SPFX/15

SFP, SMF, 100Mbps, 15 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

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



**NETWORK SMARTER**