

GS950 Eco Series

ECO-FRIENDLY GIGABIT WEBSMART SWITCHES

The GS950 Series of eco-friendly WebSmart 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.



With a low typical power consumption, and a reduction in power during after-work hours — as well as other power saving features included as standard — the GS950 Series are truly “eco-friendly.” Not only does this help the planet by reducing the carbon footprint of each switch, it also lowers the Total Cost of Ownership, as the switch costs less to run and boasts improved reliability.

With its suite of power saving features, the eco-friendly GS950 Series reduces power consumption more than 25% over non-eco-friendly models.

Future-Proof

With the depletion of IPv4 address space, IPv6 is rapidly becoming a mandatory requirement for many government and enterprise customers. To meet this need, now and into the future, the GS950 Series supports IPv6.

High Performance

The GS950 Eco Series combines the simplicity of unmanaged switches with the performance and reliability of managed switches, providing a cost-effective solution to integrate management at the edge of the network. The GS950 Series provides key features using the simple web-based management function, such as port-based VLANs, IEEE 802.1p QoS, port trunking/link aggregation, port mirroring, priority queues and IEEE 802.1x security support. With support for up to 8K

MAC addresses and a 4MB packet buffer, the GS950 Eco Series is an ideal option for integrating management into a network solution.

Exceptional Value

Affordable management functionality at the edge is a reality. Allied Telesis WebSmart switches help network managers get the most value for their

dollar with industry standard protocols, fiber media support via SFPs, and simple Plug & Play usability right out of the box.

Quality and Reliability

Shipping more than 250,000 unmanaged Ethernet switches each year, Allied Telesis is the worldwide leader, offering proven reliability and industry-recognized quality.

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
- » Spanning-Tree, IEEE 802.1d/w

IEEE 802.3ad Link Aggregation

- » Manual

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

- » Local authentication server (MD5 only)
- » Remote authentication through RADIUS
- » Dynamic VLAN assignment
- » RADIUS client for IEEE 802.1x
- » DHCP client
- » DHCP snooping
- » Statistics charts in Web
- » Jumbo frames – up to 10K

Others

- » IEEE 802.3x flow control or HOL[†] blocking prevention
- » Port mirroring
- » Destination MAC filtering

([†] when flow control is off)

- » Ingress/egress rate limiting
- » Broadcast storming control
- » 100FX SFP support

Management Features

Window-based Supporting

- » Switch discovery management up to 254 switches
- » Monitor list
- » Trap view
- » Device setting
- » Firmware upgrade by FTP and Web
- » Configuration back-up/restore by FTP
- » Factory reset
- » Password access control and restricted IP access list
- » SNMPv1/v2c/v3

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

Performance

10Mbps Ethernet	14,880pps
100Mbps Ethernet	148,800pps
1000Mbps Ethernet	1,488,000pps
MAC addresses	8K
DRAM	64MB

Packet buffer memory:

AT-GS950/8 Eco	16MB
AT-GS950/16 Eco	16MB
AT-GS950/24 Eco	16MB
AT-GS950/48 Eco	8MB

Flash:

AT-GS950/8 Eco	1MB
AT-GS950/16 Eco	1MB
AT-GS950/24 Eco	1MB
AT-GS950/48 Eco	8MB

Switching capacity:

AT-GS950/8 Eco	16Gbps
AT-GS950/16 Eco	32Gbps
AT-GS950/24 Eco	48Gbps
AT-GS950/48 Eco	96Gbps

Throughput:

AT-GS950/8 Eco	11.9Mpps
AT-GS950/16 Eco	23.4Mpps
AT-GS950/24 Eco	35.7Mpps
AT-GS950/48 Eco	71.2Mpps

Power Characteristics

Voltage 100-240V AC

Frequency 50/60Hz

Maximum power consumption:

AT-GS950/8 Eco	9.70W
AT-GS950/16 Eco	14.24W
AT-GS950/24 Eco	19.73W
AT-GS950/48 Eco	43.20W

Typical power consumption:

AT-GS950/8 Eco	8.40W
AT-GS950/16 Eco	12.07W
AT-GS950/24 Eco	16.28W
AT-GS950/48 Eco	32.60W

Interface Connections

10/100/1000T	RJ-45
SFP	100TX, 100FX, 1000T, 1000SX or 1000LX

Environmental Specifications

Operating temp.	0°C to 40°C (32°F to 104°F)
Non-operating temp.	-25°C to 70°C (-13°F to 158°F)
Operating humidity	5% to 90% non-condensing
Storage humidity	5% to 95% non-condensing
Vibration	IEC 68-2-36
Shock	IEC 68-2-29
Drop	IEC 68-2-32

Environmental Compliance

RoHS
China RoHS
WEEE

Physical Characteristics

Dimensions:

AT-GS950/8 Eco	28 cm x 18 cm x 4.4 cm (11.02 in x 7.09 in x 1.73 in)
AT-GS950/16 Eco	33 cm x 20 cm x 4.4 cm (13 in x 7.87 in x 1.73 in)
AT-GS950/24 Eco	33 cm x 20 cm x 4.4 cm (13 in x 7.87 in x 1.73 in)
AT-GS950/48 Eco	44.4 cm x 25.7 cm x 4.32 cm (17.48 in x 10.12 in x 1.70 in)

Weight:

AT-GS950/8 Eco	1.5 kg (3.3 lbs)
AT-GS950/16 Eco	2.1 kg (4.6 lbs)
AT-GS950/24 Eco	2.3 kg (5.1 lbs)
AT-GS950/48 Eco	4.1 kg (9.0 lbs)

Standards and Compliance

IEEE 802.3	Ethernet
IEEE 802.3u	Fast Ethernet
IEEE 802.3ab	Gigabit Ethernet
IEEE 802.3x	Flow control
IEEE 802.1p	Port-based QoS
IEEE 802.1p	Class of Service (CoS)
IEEE 802.1Q	Port-based VLAN
IEEE 802.1D	STP
IEEE 802.1w	RST
IEEE 802.1S	Multiple STP
IEEE 802.3ad	LACP
IEEE 802.1X	MAC-based authentication
IEEE 802.1ab	LLDP
IEEE 802.3az	Energy Efficient Ethernet

Electrical/Mechanical Approvals

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

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

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

Package Contents

- Switch unit
- Wall / rack-mount 19 in brackets and screws
- Power cord
- Rubber feet