

iGS950 Series

Gigabit WebSmart Edge Switches

The Allied Telesis iGS950 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+, iGS950 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 iGS950 Series is ideal for integrating simple management and security into your network solution.

Power over Ethernet (PoE)

The iGS950/10PS, 20PS, 28PS and 52PS switches are available in 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

- ▶ Manual
- ▶ LACP

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

Other

- ▶ 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
- ▶ SFP support 100M and 1G
- ▶ Jumbo Frames:
10PS/20PS/28PS:10Kbytes
52PS:12Kbytes

Management Features

- ▶ SSH
- ▶ Telnet
- ▶ Web-based configuration
- ▶ CLI configuration¹
- ▶ SNMP trap view
- ▶ LLDP
- ▶ Firmware upgrade by TFTP and HTTP
- ▶ Configuration backup/restore by TFTP and HTTP
- ▶ Factory reset
- ▶ Password access control and restricted
- ▶ IP access list
- ▶ SNMPv1/v2c/v3
- ▶ DHCP client
- ▶ Syslog support
- ▶ System time configuration (SNTP, manual)
- ▶ Support cpu/memory utilization chart
- ▶ Support traffic/error Statistics

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

- ▶ Support (number of entries 256)

¹ CLI can only be used for upgrading firmware, downloading configuration, and showing command

Specifications

Product specifications

PRODUCT	10/100/1000T COPPER PORTS	100/1000X SFP PORTS	TOTAL PORTS	POE+ ENABLED PORTS	SWITCHING FABRIC	FORWARDING RATE
iGS950/10PS	8	2	10	8	20Gbps	14.9Mpps
iGS950/20PS	16	4	20	16	40Gbps	29.8Mpps
iGS950/28PS	24	4	28	24	56Gbps	41.7Mpps
iGS950/52PS	48	4	52	48	104Gbps	77.4Mpps

Power characteristics

PRODUCT	NON POE+ LOAD			FULL POE+ LOAD			TOTAL POE POWER BUDGET(W)	POE SOURCING PORTS		
	MAX POWER CONSUMPTION (W)	MAX HEAT DISSIPATION (BTU/h)	MAX NOISE (dBA)	MAX POWER CONSUMPTION (W)	MAX HEAT DISSIPATION (BTU/h)	MAX NOISE (dB)		POE (7.5W)	POE (15.4W)	POE+ (30W)
iGS950/10PS	9.4	31.9	Fanless	152.3	519.5	Fanless	130	8	8	4
iGS950/20PS	22.6	77.1	-	434.3	1482	51.7	370	16	16	12
iGS950/28PS	29.8	101.5	-	446.1	1521.9	51.7	370	24	24	12
iGS950/52PS	52.9	180.6	-	889.8	3036.1	65	740	48	48	24

Note: Noise values are dependent on the ambient temperature, not POE load. Above 25C the fan runs at full speed.

Physical specifications

PRODUCT	HEIGHT	WIDTH	DEPTH	WEIGHT
iGS950/10PS	44 mm (1.73 in)	330 mm (13.00 in)	180 mm (7.09 in)	1.77 kg (3.9 lb)
iGS950/20PS	44 mm (1.73 in)	440 mm (17.32 in)	250 mm (9.80 in)	3.89 kg (8.57 lb)
iGS950/28PS	44 mm (1.73 in)	440 mm (17.32 in)	250 mm (9.80 in)	3.92 kg (8.64 lb)
iGS950/52PS	44 mm (1.73 in)	440 mm (17.32 in)	431 mm (16.96 in)	6.58 kg (14.51 lb)

Performance

14,880pps for 10Mbps Ethernet
 148,800pps for 100Mbps Ethernet
 1,488,000pps for 1000Mbps Ethernet
 MAC addresses: 8K (10PS, 20PS, 28PS)
 16K (52PS)
 VLAN IDs available: 1-4094
 Max VLANs: 256
 Packet buffer: 512KB (10PS, 20PS, 28PS)
 1.5MB (52PS)
 DRAM: 256MB
 Flash: 32MB

Interface connections

10/100/1000T: RJ-45
 SFP: 100FX, 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 50°C (32°F to 122°F)
 Operating humidity: 90% maximum

Environmental compliance

RoHS
 China RoHS
 Eu-RoHS

Electrical/mechanical approvals

UL62368
 CB 62368
 FCC
 CE Mark
 UKCA
 ICES

Standards and compliance

RFC 792	ICMP
RFC 854	Telnet
RFC 1213	MIB-II
RFC 1350	TFTP
RFC 1492	TACACS
RFC 1769	SNTP (Simple Network Time Protocol)
RFC 2131	DHCP client
RFC 2236	IGMP
RFC 2461	NDP (Neighbor Discovery protocol)
RFC 2616	HTTP
RFC 2866	RADIUS
RFC 4251	SSH
RFC 4330	SNTP
RFC 5343	SNMP
RFC 6101	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
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 802.1s	Multiple Spanning-Tree
IEEE 802.3af	PoE
IEEE 802.3at	PoE+
IEEE 802.3az	Energy Efficient Ethernet

Ordering information

Model availability can vary between regions.
Please check our website to see which models are available in your region.

AT-iGS950/10PS

8-port 10/100/1000T POE (8 POE Enabled)
WebSmart switch with 2 SFP ports

AT-iGS950/20PS

16-port 10/100/1000T POE (16 POE Enabled)
WebSmart switch with 4 SFP ports

AT-iGS950/28PS

24-port 10/100/1000T POE (24 POE Enabled)
WebSmart switch with 4 SFP ports

AT-iGS950/52PS

48-port 10/100/1000T POE (48 POE Enabled)
WebSmart switch with 4 SFP ports

² Rack-mount kit is included. It can also be used for a wall-mount

Package contents

Switch unit
Rack-mount brackets and screws
Power cord
Rubber feet

1000Mbps SFP Modules**AT-SPSX-90**

1000SX SFP, LC, MMF, 850 nm, TAA³

AT-SPSX/E

1000SX SFP, LC, MMF, Ext. Temp, TAA³

AT-SPLX10a

1000LX SFP, LC, SMF, 1310nm (10km), TAA³

AT-SPLX10/E

1000LX SFP, LC, SMF, (10 km), Ext. Temp, TAA³

AT-SPLX40

1000LX GbE, SMF, 1310 nm fiber up to 40 km

AT-SPLX40/E

1000LX SFP, LC, SMF, (40 km) Ext. Temp

³ TAA = Trade Act Agreement Compliant