

iGS950 Series

Gigabit WebSmart Edge Switches



Overview

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 DHCPv4 server and 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

	10/100/1000T Copper Ports	100/1000X SFP Ports	10/100/1000T and 100/1000X SFP Combo 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

	No PoE+ Load			Full PoE+ Load			Total PoE Power Budget	PoE sourcing ports		
	Max Power Consumption	Max Heat Dissipation	Noise	Max Power Consumption	Max Heat Dissipation	Noise		PoE (7.5W)	PoE (15.4W)	PoE+ (30W)
iGS950/10PS	9.4W	31.9 BTU/h	Fanless	152.3W	519.5 BTU/	Fanless	130W	8	8	4
iGS950/20PS	22.6W	77.1 BTU/h	-	434.3W	1482 BTU/h	51.7 dbA	370W	16	16	12
iGS950/28PS	29.8W	101.5 BTU/h	-	446.1W	1521.9 BTU/	51.7 dbA	370W	24	24	12
iGS950/52PS	52.9W	180.6 BTU/h	-	889.8W	3036.1 BTU/h	65 dbA	740W	48	48	24

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

Physical Specifications

	Width	Depth	Height	Weight
iGS950/10PS	330 mm (13.00 in)	180 mm (7.09 in)	44 mm (1.73 in)	1.77 kg (3.9 lb)
iGS950/20PS	440 mm (17.32 in)	250 mm (8.90 in)	44 mm (1.73 in)	3.89 kg (8.57 lb)
iGS950/28PS	440 mm (17.32 in)	250 mm (8.90 in)	44 mm (1.73 in)	3.92 kg (8.64 lb)
iGS950/52PS	440 mm (17.32 in)	431 mm (16.96 in)	44 mm (1.73 in)	6.58 kg (14.51 lb)

- RFC 2131
RFC 2236
RFC 2461
RFC 2616
RFC 2866
RFC 4251
RFC 4330
RFC 5343
RFC 6101
IEEE 802.3
IEEE 802.3i
IEEE 802.3u
IEEE 802.3z
IEEE 802.3z/ab
IEEE 802.3x
IEEE 802.1p
IEEE 802.1x
IEEE 802.1x
IEEE 802.1x
IEEE 802.1x
IEEE 802.1d
IEEE 802.3ad
IEEE 802.3ad
IEEE 802.1Q
IEEE 802.1d
IEEE 802.1w
IEEE 802.1s
IEEE 802.3af
IEEE 802.3at
IEEE 802.3az
- DHCPv4 server and client
IGMP
NDP (Neighbor Discovery protocol)
HTTP
RADIUS
SSH
SNTP
SNMP
SSL
CSMA/CD
10T
100TX
1000SX/LX
1000T
Flow control
Prioritization (four queues)
Authentication
Local authentication server(MD5)
Remote authentication through RADIUS
Dynamic VLAN assignment
MAC-based authentication
RADIUS
Bridging
Link aggregation
Port trunking and LACP
Tagged VLAN
Spanning-Tree
Rapid Spanning-Tree
Multiple Spanning-Tree
PoE
PoE+
Energy Efficient Ethernet

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
RCM

STANDARDS & COMPLIANCE

- RFC 792
RFC 854
RFC 1213
RFC 1350
RFC 1492
RFC 1769
ICMP
Telnet
MIB-II
TFTP
TACACS
SNTP (Simple Network Time Protocol)

ORDERING INFORMATION

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

AT-iGS950/10PS-xxx ²	8-port 10/100/1000T POE (8 POE Enabled) WebSmart switch with 2 SFP ports, TAA ³
AT-iGS950/20PS-xxx ²	16-port 10/100/1000T POE (16 POE Enabled) WebSmart switch with 4 x 10/100/1000T & SFP combo ports, TAA ³
AT-iGS950/28PS-xxx ²	24-port 10/100/1000T POE (24 POE Enabled) WebSmart switch with 4 x 10/100/1000T & SFP combo ports, TAA ³
AT-iGS950/52PS-xxx ²	48-port 10/100/1000T POE (48 POE Enabled) WebSmart switch with 4 x 10/100/1000T & SFP combo ports, TAA ³

² Where xxx = 910 for US power cord
930 for UK power cord
940 for AU power cord
950 for EU power cord

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, TAA ³
AT-SPSX/E	1000SX SFP, LC, MMF, Ext. Temp, TAA ³
AT-SPLX10a	1000LX SFP, LC, SMF, 1310nm (10km), TAA ³
AT-SPLX10/E	1000LX SFP, LC, SMF, (10 km), Ext. Temp, TAA ³
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
Any SFP modules not listed in the Supported SFP section of this datasheet are not supported.