CentreCOM® GS920 Series

Gigabit Ethernet DIP Smart Switches

The Allied Telesis GS920 Series offers DIP Smart Gigabit switching solutions for the desktop and small networks. Front-panel DIP switches provide easy configuration of commonly-used features, without the need for a PC.

DIP switches
GS920 series switches provide port configuration for Speed/Duplex, Loop Detection and Flooding mode. The ability to set up the DIP switch without a PC saves money and time.

High performance
The GS920 Series delivers ultra-fast speed and high performance for today's high-bandwidth applications, such as video, graphics and industrial design, using Gigabit Ethernet.

Quality and reliability
Allied Telesis is a world leader in unmanaged Ethernet switches, and ships more than 250,000 unmanaged switches every year. Allied Telesis offers both proven reliability and industry-leading quality.

Speed/duplex configuration
The GS920 Series allows speed and duplex to be set on a per-port basis. This supports older devices where auto-negotiation is not supported, as well as embedded devices which may support a fixed speed/duplex only.

Loop detection
The Loop Detection feature discovers network loops, and shuts down affected ports. After the loop is resolved, affected ports are automatically returned to active use.

Flooding mode
Flooding mode allows the easy capture of data streams for troubleshooting and analysis, as they are sent to all ports.

Power over Ethernet (PoE)
The GS920/8PS supports PoE+ (IEEE 802.3at) and delivers up to 30W per port.

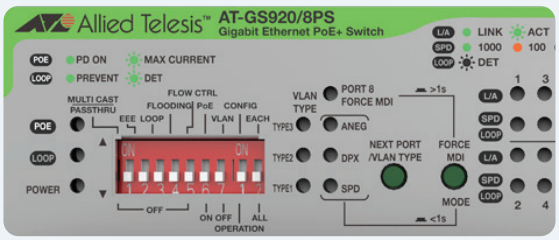
Private VLANs
Private VLANs isolate ports so that they can only communicate with the uplink port, and other ports in the same VLAN group. The GS920/8PS supports 3 different port groupings for flexible private VLAN deployment.

See the Installation Guide manual for more details.

Key Features

- DIP smart switches
- Loop Guard (Loop Detection) for avoiding loops at the network edge
- Loop Detection Frames are regularly sent, and affected ports are shut down if a loop is discovered
- IEEE802.3az Energy Efficient Ethernet (EEE)*
  *only on 100/1000M
- Force MDI avoids incorrect cabling and potential network loops
- EAPOL/BPDU forwarding
- Flow control
- Speed/duplex configuration
- Flooding mode
- Fanless design for silent operation
- IEEE 802.3at PoE+ sourcing (30W)
- Private VLANs configuration

DIP Switch



It is possible to easily set up the loop guard function, packet transmission function, etc. that need to be set by CLI or GUI operation, with the DIP switch.

Physical Specifications

PRODUCT	WIDTH X DEPTH X HEIGHT	WEIGHT	SWITCHING CAPACITY	MAC ADDRESS	POWER CURRENT	MAX POWER CONSUMPTION
GS920/8	210 x 121 x 38 mm (8.27 x 4.76 x 1.50 in)	0.8 kg (1.76 lb)	16Gbps	4K	0.2A	4.5W
GS920/8PS	210 x 275 x 42.5 mm (8.27 x 10.83 x 1.67 in)	1.6 kg (3.53 lb)	16Gbps	4K	1.7A	See table below
GS920/16	263 x 179 x 38 mm (10.35 x7.05 x 1.50 in)	1.5 kg (3.31 lb)	32Gbps	8K	0.3A	12W
GS920/24	341 x 210 x 44 mm (13.43 x 8.27 x 1.73 in)	2.1 kg (4.63 lb)	48Gbps	8K	0.4A	18W

PoE Power Characteristics

PRODUCT	NO POE LOAD		FULL POE+ LOAD		MAX POE POWER	MAX POE - SOURCING PORTS		
	MAX POWER CONSUMPTION	MAX HEAT DISSIPATION	MAX POWER CONSUMPTION	MAX HEAT DISSIPATION		POE (7.5W)	POE (15W)	POE+ (30W)
GS920/8PS	5.4W	8 BTU/h	74W	254 BTU/h	62W	8	4	2

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

Default aging time: 200-600 seconds

Packet Buffer
GS920/8, 8PS: 192Kbytes
GS920/16, 24: 524Kbytes

Jumbo Frames
GS920/8, 8PS, 16, 24: 9216bytes

DIP Switch Functionality
Loop Detection
EAP/BPDU passthrough
Half/full-duplex
Auto-negotiation
Auto or Fixed MDI/MDI-X
Flow control
PoE function (Off/On)
Energy Efficient Ethernet (only for 100M/1000M)
Private VLANs (only for GS920/8PS)

Interface Connections
10/100/1000T RJ-45

Environmental Specifications
Operating temperature: 0°C to 50°C (32°F to 122°F)
Storage temperature: -20°C to 70°C (-4°F to 158°F)
Operating humidity: 5 - 90% (non-condensing)
Storage humidity: 5 - 95% (non-condensing)
Operating altitude range: up to 2,000 m (6,562 ft)

Power Characteristics
Voltage: 100 - 240V AC
Frequency: 50 - 60 Hz

Standards and Compliance
IEEE 802.3 10BASE-T
IEEE 802.3u 100BASE-TX
IEEE 802.3ab 1000BASE-T
IEEE 802.3af Power over Ethernet (PoE)
IEEE 802.3at Power over Ethernet Plus (PoE+)
IEEE 802.3x Flow Control
IEEE 802.3az Energy-Efficient Ethernet

Electrical/Mechanical Approvals
EAC certification
GS920/8, 16
- EN55024
- ICES Class B
- VCCI Class B
- FCC Class B
- EN55032:2012 Class B
- CISPR 32 Class B
- CE

GS920/8PS, 24
- EN55024
- ICES Class A
- VCCI Class A
- FCC Class A
- EN55032:2012 Class A
- CISPR 32 Class A
- CE

Safety
UL60950-1, 2nd Edition
CSA C22.2 No.60950-1-07, 2nd Edition
IEC60950-1(UL-EU, UL-CB)

Restrictions on Hazardous Substances (RoHS) Compliance
EU RoHS compliant

Rack Mount and Wall Mount
GS920/8, 8PS, 16: optional
GS920/24: included

Features
DIP switch configuration
BPDU/EAP pass-through
Flow control
Speed/Duplex configuration
Loop guard
Force MDI
Jumbo Frame
Energy Efficient Ethernet (EEE)* (*only on 100/1000M)
Eco-friendly

Ordering Information

AT-GS920/8-xx
8-port 10/100/1000T unmanaged switch with internal PSU

AT-GS920/8PS-xx
8-port 10/100/1000T POE+ unmanaged switch with internal PSU

AT-GS920/16-xx
16-port 10/100/1000T unmanaged switch with internal PSU

AT-GS920/24-xx
24-port 10/100/1000T unmanaged switch with internal PSU

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

Accessories
AT-BRKT-J23
Wall mount kit for AT-GS920/8, 16

AT-RKMT-J05
Rack-mount kit for AT-GS920/16

AT-RKMT-J08
Rack-mount kit for AT-GS920/8

AT-BRKT-J24
Wall mount kit for AT-GS920/8PS

AT-RKMT-J14/-J15
Rack-mount kit for AT-GS920/8PS

617-000624 RevE