

# 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

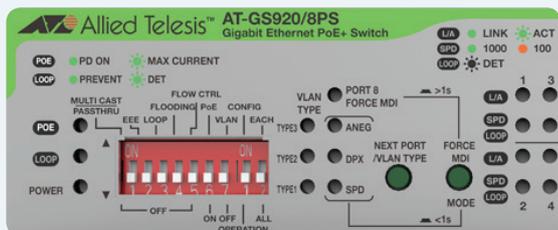
Private VLANs isolate ports so that they can only communicate with the uplink port, and other ports in the same VLAN group. The GS920/8PS supports 3 different port groupings for flexible private VLAN deployment.

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 x 7.05 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

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

### AT-GS920/8PS

8-port 10/100/1000T POE+ unmanaged switch with internal PSU

### AT-GS920/16

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

### AT-GS920/24

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

## 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