CentreCOM® GS900M Copper Series

Layer 2 Gigabit Access Switches

Allied Telesis CentreCOM GS900M Series copper Gigabit access switches are cost-effective and fully managed. GS900M Series switches deliver flexible uplink connectivity with one small form-factor pluggable (SFP) slot on the 8-port model and 2 or 4 unpopulated combo ports (10/100/1000T or 100FX/1000X) on the 16/24-port models.

Overview

CentreCOM GS900M Series switches feature quiet operation with a compact, fanless 8-port model and a variable fan control feature on the 16/24-port models. All models feature 0-50°C extended temperature capability. In addition, the CentreCOM GS900M Series includes ECO LED, ECO Trigger, and Power Saving Mode for energy efficiency. CentreCOM GS900M Series switches provide an intelligent, energy efficient, and cost-effective solution for the edge of the network.

Key Features

- Web-based graphical user interface for simplified administration
- Supports up to 50°C extended temperature
- Eco-friendly
- Flexible LAN authentication functions
- Tri Authentication: Any one physical port can support a combination of IEEE 802.1X, MAC, and Web Authentication. Therefore, the user doesn't have to set each port configuration based on the authentication method on the connected device
- Multiple Dynamic VLAN: The traffic from a device is classified into a dynamic VLAN after the connection is authenticated
- IGMP v3 / MLD v2 Snooping: Limits the flooding of multicast traffic by dynamically configuring L2 interfaces so that multicast traffic is forwarded to only those interfaces associated with IP multicast address

Specifications

Port Speed

10Mbps/100Mbps/1000Mbps

Port Configuration

Ports	10/100/1000T (RJ-45 Connector) AT-GS908M × 8 AT-GS916M × 16 AT-GS924M × 24
Auto-Negotiation	
Auto MDI/MDI-X	
MDI/MDI-X Manual Configuration	
Full Duplex/Half Duplex Manual Configuration (only on 10/100Mbps mode)	
SFP Slots	AT-GS908M × 1 AT-GS916M × 2 AT-GS924M × 4

Cable Specifications

10T	UTP Category 3 or better
100T	UTP Category 5 or better
1000T	UTP Enhanced Category 5 or better

Ethernet Specifications

IEEE 802.3	10BASE-T
IEEE 802.3u	100BASE-TX
IEEE 802.3u	100BASE-FX
IEEE 802.3ab	1000BASE-T
IEEE 802.3z	1000BASE-SX/LX
IEEE 802.3ah	100BASE-BX, 1000BASE-BX10
IEEE 802.3x	Flow Control
IEEE 802.3ad	Link Aggregation Manual Configuration
IEEE 802.1D	Spanning-Tree STP Compatible
IEEE 802.1Q	VLAN Tagging
IEEE 802.1X	Port-Based Network Access Control
IEEE 802.1p	Class of Service, priority protoco
I IEEE 802.1s	Multiple Spanning-Tree
IEEE 802.1w	Rapid Spanning-Tree

LEDs

Selectable Port LED as Speed or Duplex indicator, port LED can be disabled.

LINK/ACT	Green: Link Established Flashing: Send/Receive Packets
SPD/DPX (SPEED)	Green: 1000Mbps link established
SPD/DPX (DUPLEX)	Green: Full Duplex link established
SFP Slot LED	
LINK/ACT	Green: Link Established Flashing: Send/Receive Packets
Status LED	
POWER	Green: Power On
FAULT	Red: Detecting Error Flashing: Booting, Writing to Flash Memory, Error on FAN, Voltage, Temp
STANDBY	Green: Standby Mode

Supported Features

VLAN (Port-based/IEEE 802.1Q Tagging)
Multiple VLAN
Spanning-Tree (IEEE 802.1 D STP Compatible/IEEE 802.1 w/ IEEE 802.1s)
QoS (IEEE 802.1p/Diffserv)
Policy-Based QoS
IEEE 802.1x Authentication (Single Host/Multiple Host/ Multiple Authentication)
IEEE 802.1x Encryption Mode (MD5/TLS/TTLS/PEAP)
Dynamic VLAN
Multiple Dynamic VLAN
MAC Address-based Authentication
Web Authentication
Supplicant MAC Authentication
EPSR-Aware
Port Trunking (IEEE 802.3ad Manual Configuration)
Port Mirroring
Port Security
Flow Control
Packet Storm Protection
Loop Guard (LDF Detection/Ingress Rate Detection)
Ingress Filtering
HoL Blocking Prevention
IGMP v3 Snooping
MLD v2 Snooping
BPDU/EAP Forwarding
DHCP Snooping
Access Filter
DHCP Client
RADIUS Accounting
Jumbo Frame
Logging
Script
SNTP
Statistics
eco-friendly features (Power Saving Mode)
Auto Fan Control
Download firmware and configuration by TFTP/Zmodem/ HTTP

Management

SNMP	SNMP v1, SNMP v2c
SNMP MIB	MIB II (RFC1213), Ethernet MIB(RFC3635) Extended Interface MIB(RFC2863 [if X Entry]) Bridge MIB(RFC1493) Dot1q MIB RFC2674, Private MIB
Terminal	Telnet, VT100 (via Console), Web GUI (via HTTP, requires Internet Explorer)

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Performance

		AT-GS908M	AT-GS916M	AT-GS924M
Switching mode		Store and Forward		
Maximum packet forwarding rate (entire unit/64 Byte)		13.4Mpps	23.8Mpps	35.7Mpps
Switching delay (64 Byte)	1000M <> 1000M	4.0µs	4.2µs	4.0µs
	100M <> 100M	8.8µs	9.3µs	9.0µs
	0M <> 10M	57.3µs	62.8µs	60.9µs
Switching fabric		24Gbps	36Gbps	48Gbps
Memory	Packet Buffer	512KB		
	Flash	16MB		
	Main Memory	64MB		
FDB entry		8K (Maximum)		
Number of VLANs		256 (VID=1 ~ 4,094)		

Power Specifications

	AT-GS908M	AT-GS916M	AT-GS924M
Rated input voltage	100–240V AC (10% auto-ranging)		
Rated frequency	50/60Hz		
Rated input current	0.3A	0.5A	0.6A
Maximum input current (actual measured value)	0.2A	0.4A	0.53A
Average power consumption	8.6W (Max 12W)	17W (Max 22W)	25W (Max 30W)

Environmental Specifications

Operating temperature	0°C to 50°C (32°F to 122°F)
Storage temperature	-20°C to 60°C (-4°F to 140°F)
Operating humidity	5% to 80% (non-condensing)
Storage humidity	5% to 95% (non-condensing)

Physical Characteristics

Dimensions (W xD x H)	
AT-GS908M	26.3 cm × 17.9 cm × 3.8 cm (10.35 in × 7.05 in × 1.5 in)
AT-GS916M	34.1 cm × 21 cm × 4.4 cm (13.42 in × 8.26 in × 1.7 in)
AT-GS924M	44 cm × 21 cm × 4.4 cm (17.32 in × 8.26 in × 1.7 in)
Weight:	
AT-GS908M	1.4 kg (3.08 lbs)
AT-GS916M	2.0 kg (4.41 lbs)
AT-GS924M	2.7 kg (5.95 lbs)

Safety and Electromagnetic Emissions Certifications

EMI	AT-GS908M : VCCI Class B AT-GS916M AT-GS924M : VCCI Class A
Safety Standards	UL60950-1, CSA-C22.2 No. 60950-1
EU RoHS Compliant	

Package Description

AT-GS9XXM switch
120V AC power cord
Management cable (RJ-45 to DB-9)
Rack-mount kit for AT-GS916M and AT-GS924M
Install Guide and CLI user's guide available at alliedtelesis.com

Ordering Information

GS900M Gigabit Copper Switches

AT-GS908M-xx
8 × 10/100/1000T ports, 1 × SFP slot
1 standard AC power supply in a compact form factor

AT-GS916M-xx
14 × 10/100/1000T ports, 2 × Combo ports (2 × 10/100/1000T or 100FX/1000X ports)
1 standard AC power supply in a compact form factor

AT-GS924M-xx
20 × 10/100/1000T ports, 4 × Combo ports (4 × 10/100/1000T or 100FX/1000X ports)
1 standard AC power supply in a compact form factor

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-RKMT-J05
19 in rack-mounting kit for AT-GS908M

Small Form Pluggable Optics Modules

AT-SPSX
SFP, MMF, 1000Mbps, 220 / 500 m, 850 nm, LC

AT-SPSX-1
SFP, MMF, 1000Mbps, 220 / 550m, 850 nm, LC
Extended temperature: -40°C to 85°C

AT-SPEX
SFP, MMF, 1000Mbps, 2 km, 1310 nm, LC

AT-SPLX10
SFP, SMF, 1000Mbps, 10 km, 1310 nm, LC

AT-SPLX10/I
SFP, SMF, 1000Mbps, 10 km, 1310 nm, LC
Extended temperature: -40°C to 85°C

AT-SPLX40
SFP, SMF, 1000Mbps, 40 km, 1310 nm, LC

AT-SPZX80
SFP, SMF, 1000Mbps, 80 km, 1550 nm, LC

AT-SPBD10-13
SFP, SMF, 1000Mbps, 10 km, 1310/1490 nm, LC-BiDi

AT-SPBD10-14
SFP, SMF, 1000Mbps, 10 km, 1490/1310 nm, LC-BiDi

AT-SPFX/2
SFP, MMF, 100Mbps, 2 km, 1310 nm, LC

AT-SPFXBD-LC-13
SFP, SMF, 100Mbps, 10 km, 1310/1510 nm, LC-BiDi

AT-SPFXBD-LC-15
SFP, SMF, 100Mbps, 10 km, 1510/1310 nm, LC-BiDi

AT-SPFX/15
SFP, SMF, 100Mbps, 15 km, 1310 nm, LC

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