

CentreCOM® FS900M Series

Layer 2 Fast Ethernet Access Switches

Allied Telesis CentreCOM FS900M Series Fast Ethernet access switches are cost-effective and fully managed. FS900M Series switches deliver flexible uplink connectivity with one combo port (10/100/1000T and SFP slot) on the 8- and 16-port models and two combo ports on the 24-port model.



Overview

CentreCOM FS900M Series switches feature quiet operation with a compact, fanless model. All models feature an extended temperature range from 0-50°C. The CentreCOM FS900M Series is ideal for small offices and enterprises with the need for segmented and managed network communication with minimal investment.

Key Features

- ▶ Supports up to 50°C extended temperature
- ▶ Fanless design for quiet operation
- ▶ Tagged VLAN, port-based VLAN and Multiple VLAN
- ▶ Easy network management
- ▶ Manage the network remotely with Telnet, PING, SNMP and Trap.
- ▶ Web-based graphical user interface for simplified administration.
- ▶ Update firmware and configuration via TFTP/FTP/HTTP.
- ▶ Loopguard provides active protection against cabling loops with optional notification via SNMP traps and automatic disabling of looped port
- ▶ Tri Authentication: Any one physical port can support a combination of IEEE 802.1X, MAC and Web Authentication. Individual port configuration does not have to be set based on the authentication method on the connected device.
- ▶ IGMP v2 / 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 an IP multicast address.
- ▶ EPSR-Aware: The FS900M can be connected in an Ethernet Protection Switched Ring (EPSRing™) as a transit node. Upon network failure, fault detection and route change are performed promptly, minimizing downtime.

Specifications

Port Configuration

Ports 10/100T (RJ-45 Connector)
 AT-FS909M × 8
 AT-FS917M × 16
 AT-FS926M × 24

Auto-Negotiation
 Auto MDI/MDI-X
 MDI/MDI-X Manual Configuration
 Full Duplex/Half Duplex Manual Configuration (only on 10/100Mbps mode)

Combo port (SFP slot and 10/100/1000T)
 AT-FS909M × 1
 AT-FS917M × 1
 AT-FS926M × 2

RS-232

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 802.3ab 1000BASE-T
 IEEE 802.3z 1000BASE-SX/LX
 IEEE 802.3ah 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 protocol
 IEEE 802.1w Rapid Spanning-Tree

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)
 IEEE 802.1x Authentication (Single Host/Multiple Host/ Multiple Authentication)
 IEEE 802.1x Encryption Mode (MD5/TLS/TTLS/PEAP)
 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 v2 Snooping
 MLD v2 Snooping
 BPDU/EAP Forwarding
 Access Filter
 DHCP Client
 RADIUS Authentication
 Logging
 Script
 SNMP
 Statistics display
 Download firmware and configuration by TFTP/Zmodem/ HTTP

Management

SNMP SNMP v1, SNMP v2c
 SNMP MIB MIB II (RFC1213), Ethernet MIB(RFC2665)
 Extended Interface MIB(RFC2863 [if X Entry])
 Bridge MIB(RFC1493) Private MIB
 Terminal Telnet, VT100 (via Console), Web GUI (via HTTP, requires Internet Explorer)

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 × D × H):

AT-FS909M	26.3 cm × 17.9 cm × 3.8 cm (10.35 in × 7.05 in × 1.5 in)
AT-FS917M	26.3 cm × 17.9 cm × 3.8 cm (10.35 in × 7.05 in × 1.5 in)
AT-FS926M	34.1 cm × 21 cm × 4.4 cm (13.42 in × 8.26 in × 1.7 in)

Weight:

AT-FS909M	1.3 kg (2.86 lbs)
AT-FS917M	1.4 kg (3.08 lbs)
AT-FS926M	2.1 kg (4.63 lbs)

Safety and Electromagnetic Emissions Certifications

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

Package Description

AT-FS9XXM switch
 120V AC power cord
 Install Guide and CLI user's guide available at alliedtelesis.com

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Performance		AT-FS909M	AT-FS917M	AT-FS926M
SWITCHING MODE		Store and Forward		
MAXIMUM PACKET FORWARDING RATE (ENTIRE UNIT/64 BYTE)		2.68Mpps	3.87Mpps	6.55Mpps
SWITCHING FABRIC		5.6Gbps	8.2Gbps	8.8Gbps
MEMORY	Flash	8MB		
	Main Memory	32MB		
FDB ENTRY		8K (Maximum)		
NUMBER OF VLANS		256 (VID=1 ~ 4,094)		

Power Specifications		AT-FS909M	AT-FS917M	AT-FS926M
RATED INPUT VOLTAGE		100–240V AC		100–120V AC
RATED FREQUENCY		50/60Hz		
RATED INPUT CURRENT		0.2A	0.3A	0.3A
MAXIMUM INPUT CURRENT (ACTUAL MEASURED VALUE)		0.17A	0.19A	0.26A
AVERAGE POWER CONSUMPTION		7.4W (Max 11W)	9.1W (Max 13W)	12W (Max 16W)

Ordering Information

FS900M Fast Ethernet Access Switches



AT-FS909M-xx

8 × 10/100T ports
1 × combo port (10/100/1000T or 1000FX port)
1 standard AC power supply in a compact form factor



AT-FS917M-xx

16 × 10/100T ports
1 × combo port (10/100/1000T or 1000FX port)
1 standard AC power supply in a compact form factor



AT-FS926M-xx

24 × 10/100T ports
2 × combo port (10/100/1000T or 1000FX port)
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-inch rack mount kit for AT-FS909M and AT-FS917M

Small Form Pluggable Optics Modules

AT-SPSX

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

AT-SPLX10

SFP, SMF, 1000Mbps, 10 km, 1310 nm, LC

AT-SPLX40

SFP, SMF, 1000Mbps, 40 km, 1310 nm, LC

AT-SPZX80

SFP, SMF, 1000Mbps, 80 km, 1550 nm, LC

AT-SPBD10-I3

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

AT-SPBD10-I4

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