

FS750 Series

Fast Ethernet WebSmart Edge Switches



The Allied Telesis FS750 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+, FS750 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 FS750 Series is ideal for integrating simple management and security into your network solution.

Power over Ethernet (PoE)

The FS750/28PS has 24 ports of 10/100TX, all PoE capable. The first four ports of the switch are PoE+ capable, up to 30W. The total PoE power budget is 193W across all 24 ports.

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.

Exceptional value

Affordable management functionality at the network edge is a reality. Allied Telesis WebSmart switches help network managers get the most value for their dollar, with industry standard protocols, fiber media support via SFPs, and simple Plug and Play usability—right out of the box.

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 802.1x 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
- 100/1000 SFP supported
- Jumbo Frames - up to 10K

Management Features

- Web-based configuration
- Discovery support
- SNMP trap view
- LLDP
- Firmware upgrade by FTP and HTTP
- Configuration backup/restore by FTP and HTTP
- Factory reset
- Password access control and restricted IP access list
- SNMPv1/v2c/v3
- Management IP: DHCP client for Web
- Management and static IP setting
- Syslog support
- System time configuration (SNTP, manual)

MIBs

- RFC 1213 MIB-II
- RFC 1643 Ethernet MIB
- RFC 1493 Bridge MIB
- RFC 2131 DHCP client
- Private Enterprise MIB (Allied Telesis provides the spec)

RMON Groups (1, 2, 3, 9)

- Stats
- History
- Alarms
- Events

ACL

- 200 entries (shared)

SPECIFICATIONS

Physical Specifications

	Switching Capacity	Forwarding Rate	Fan	Max Power Consumption	Operating Temperature	Weight	Width x Depth x Height
FS750/20	11.2Gbps	8.3Mpps	Fanless	7.6W	0°C to 40°C (32°F to 104°F)	2.2 kg (4.85 lb)	330 mm x 180 mm x 44 mm (13 in x 7.08 in x 1.73 in)
FS750/28	12.8Gbps	9.5Mpps	Fanless	8.7W	0°C to 40°C (32°F to 104°F)	2.2 kg (4.85 lb)	330 mm x 180 mm x 44 mm (13 in x 7.08 in x 1.73 in)
FS750/28PS	12.8Gbps	9.5Mpps	Fan	241W	0°C to 40°C (32°F to 104°F)	5.0 kg (11.00 lb)	440 mm x 210 mm x 44 mm (17.3 in x 8.26 in x 1.73 in)
FS750/52	17.6Gbps	13.1Mpps	Fanless	13.25W	0°C to 40°C (32°F to 104°F)	3.0 kg (6.61 lb)	440 mm x 250 mm x 44 mm (17.3 in x 9.8 in x 1.73 in)

PoE Power Characteristics

	Max PoE Power	Max PoE Enabled Ports	Max PoE+ Enabled Ports	Max Power Consumption		Voltage	Frequency
				PoE off	PoE on		
FS750/20	-	-	-	7.6W	-	100-240V AC	50-60Hz
FS750/28	-	-	-	8.7W	-	100-240V AC	50-60Hz
FS750/28PS	193W	24	4 (port1-4)	18W	241W	100-240V AC	50-60Hz
FS750/52	-	-	-	13.25W	-	100-240V AC	50-60Hz

Performance

- 14,880pps for 10Mbps Ethernet
- 148,800pps for 100Mbps Ethernet
- 1,488,000pps for 1000Mbps Ethernet
- MAC addresses
 - FS750/20, 28, 28PS: 8K
 - FS750/52: 16K
- VLAN IDs available 4,000
- Max VLANs 256
- Packet buffer 4.1 Mbit
- DRAM 128MB
- Flash 16MB

Interface Connections

- 10/100TX
- 10/100/1000T RJ-45
- SFP 100FX, 1000T, 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 40°C (32°F to 104°F)
- Non-operating temperature: -25°C to 70°C (-13°F to 158°F)
- Operating humidity: 5% to 90% non-condensing
- Storage humidity: 5% to 95% non-condensing
- Vibration: IEC 68-2-36
- Shock: IEC 68-2-29
- Drop: IEC 68-2-32
- Flammability: UL94V-0

Environmental compliance

- RoHS
- Eu-RoHS
- China RoHS
- WEEE

Electrical/mechanical approvals

- UL60950-1 2nd edition (UL)
- FCC/EN55022/CISPR 22 Class A
- VCCI Class A
- C-Tick
- EN60950 (TUV)
- EN55024
- CE Mark
- CSA / cUL

Standards and compliance

- IEEE 802.3 CSMA/CD IEEE 802.3i 10T
- IEEE 802.3u 100TX
- IEEE 802.3z 1000SX/LX
- IEEE 802.3z/ab 1000T
- IEEE 802.3x Flow control
- IEEE 802.1p Prioritization (four queues)
- IEEE 802.1x Authentication
- IEEE 802.1x Local authentication server(MD5)
- IEEE 802.1x Remote authentication through RADIUS
- IEEE 802.1x Dynamic VLAN assignment
- IEEE 802.1x MAC-based authentication
- IEEE 802.1x RADIUS
- IEEE 802.1d Bridging
- IEEE 802.3ad Link aggregation
- IEEE 802.3ad Port trunking and LACP
- IEEE 802.1Q Tagged VLAN
- IEEE 802.1d Spanning-Tree
- IEEE 802.1w Rapid Spanning-Tree
- IEEE 802.1s Multiple Spanning-Tree
- IEEE 802.3af PoE
- IEEE 802.3at PoE+
- IEEE 802.3az Energy Efficient Ethernet

ORDERING INFORMATION

AT-FS750/20-xx¹	16-port 10/100TX + 2 10/100/1000T + 2 SFP/1000T Combo Ports PSU
AT-FS750/28-xx¹	24-port 10/100TX + 2 10/100/1000T + 2 SFP/1000T Combo Ports
AT-FS750/28PS-xx¹	24-port 10/100TX + 2 10/100/1000T + 2 1000T SFP combo ports and PoE
AT-FS750/52-xx	48-port 10/100TX + 2 10/100/1000T + 2 SFP/1000T Combo Ports

Where xx = 10 for US power cord
 20 for no power cord
 30 for UK power cord
 40 for AU power cord
 50 for EU power cord

¹ Trade Act Agreement compliant

Small Form Pluggable Optics Modules

AT-SPSX	SFP, MMF, 1000Mbps, 550 m, 850 nm, LC
SPSX/I	SFP, MMF, 1000Mbps, 550 m, 850 nm, LC, industrial temperature
AT-SPLX10	SFP, SMF, 1000Mbps, 10 km, 1310 nm, LC
AT-SPFX/2	SFP, MMF, 100Mbps, 2 km, 1310 nm, LC
AT-SPFX/15	SFP, SMF, 100Mbps, 15 km, 1310 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

Package contents

Switch unit
 Rack-mount brackets and screws
 Power cord
 Rubber feet
 User manual/install guide on CD
 (GS950/8POE only)