

# 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.

## New 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

PRODUCT	SWITCHING CAPACITY	FORWARDING RATE	FAN	MAX POWER CONSUMPTION	OPERATING TEMPERATURE	WEIGHT	SIZE WIDTH X DEPTH X HEIGHT
AT-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 x44 mm (13 in x 7.08 in x 1.73 in)
AT-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 x44 mm (13 in x 7.08 in x 1.73 in)
AT-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 x44 mm (17.3 in x 8.26 in x 1.73 in)
AT-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 x44 mm (17.3 in x 9.8 in x 1.73 in)

Power characteristics

PRODUCT	MAX POE POWER	MAX POE ENABLED PORTS	MAX POE+ ENABLED PPORTS	MAX POWER CONSUMPTION		VOLTAGE	FREQUENCY
				POE OFF	POE ON		
AT-FS750/20	-	-	-	7.6W	-	100-240V AC	50-60Hz
AT-FS750/28	-	-	-	8.7W	-	100-240V AC	50-60Hz
AT-FS750/28PS	193W	24	4 (port1-4)	18W	241W	100-240V AC	50-60Hz
AT-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-xx**  
16-port 10/100TX + 2 10/100/1000T + 2 SFP/1000T Combo Ports

**AT-FS750/28-xx**  
24-port 10/100TX + 2 10/100/1000T + 2 SFP/1000T Combo Ports

**AT-FS750/28PS-xx**  
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 Australian power cord  
50 for European power cord

### Package contents

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

### Small Form Pluggable Optics Modules

**AT-SPSX**  
SFP, MMF, 1000Mbps, 550 m, 850 nm, LC

**AT-SPSX/1**  
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