FS750 Series

Eco-Friendly Fast Ethernet WebSmart Switches



The Allied Telesis FS750 family of WebSmart 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.

Ease of Management and High Performance

These advanced Allied Telesis WebSmart switches integrate the simplicity of unmanaged switches with the performance and reliability of managed switches to provide a cost-effective, yet secure and reliable, solution for users to integrate management at the edge of their networks. With user-friendly web-based management, the FS750 Series is an ideal option for integrating simple management and security into a network solution.

Eco-Friendly

With a low typical power consumption, and a reduction in power during after-work hours — as well as other power saving features included as standard — the FS750 Series is truly "eco-friendly." Not only does this help the planet by reducing the carbon footprint of each switch, it also lowers the Total Cost of Ownership, as the switch costs less to run and boasts improved reliability.With its suite of power saving features, the eco-friendly FS750 Series reduces power consumption more than 25% over non-eco-friendly models.

Future-Proof

With the depletion of IPv4 address space, IPv6 is rapidly becoming a mandatory requirement for many government and enterprise customers. To meet this need, now and into the future, the FS750 Series supports IPv6.

Exceptional Value

Affordable management functionality at the 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 802.3ad Link Aggregation
IEEE 802.1x Port-based and MAC-based

Network Access Control
- Local authentication server (MD5 only)
- Remote authentication through RADIUS Dynamic VLAN assignment

RADIUS Client
DHCP Client
DHCP Snooping
Statistics Charts in Web
Jumbo Frames - up to 10K

Others
- 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

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

Performance

14,880pps for 10Mbps Ethernet
148,800pps for 100Mbps Ethernet
1,488,000pps for 1000Mbps Ethernet

MAC addresses	8,000
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

Environmental Compliance

RoHS
Eu-RoHS
China RoHS
WEEE

MTBF

263,000 hours
Telcordia SR-332

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

Technical Specifications

Wall-mount or desktop
All units come with wall /19 in rack-mount brackets

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

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

Product Contents

Switch unit
Rack-mount brackets and screws
Power cord
Rubber feet

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-FS750/52-xx
48-port 10/100TX + 2 10/100/1000T + 2 SFP/1000T Combo Ports

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-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

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

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