

## AT-FS708/POE

### Unmanaged 8 Port Power Over Ethernet Switch



#### AT-FS708/POE

8 port 10/100TX unmanaged PoE switch with 1 SFP

#### ECO-Friendly

The AT-FS708/POE eco friendly switch conforms with Allied Telesis' commitment to environmentally friendly processes and products. It is designed to minimize power consumption through the use of a high efficiency power supply and a low power chipset.

With a low 6.3W (regular) and 77.5W (with PoE) maximum power consumption, and a reduction in power during after-work hours (overnight mode) – as well as other power saving features included as standard, the Allied Telesis AT-FS708/POE truly lives up to it's name as an 'eco friendly' switch.

Not only does this help the planet by reducing the carbon footprint of each switch, it also lowers the Total Cost of Ownership (TCO) to the user, as the product costs less to run, and has improved reliability.

With all of these power saving features, the new eco friendly AT-FS708/POE saves the user up to 6.6% in power consumption over our previous version (see power saving table).

#### High Performance

Providing powerful 10/100 switching solutions for desktop, conference room and security applications, the Allied Telesis AT-FS708/POE unmanaged switch features automatic detection and classification of an attached PoE device. With all eight ports PoE capable (four at full 15.4W), this is the perfect solution for a wireless security or conference room application. The 10/100 ports on the switch feature full auto-negotiation. These ports enable the switches to detect the speed and duplex modes of attached devices, enabling them to automatically configure for the best possible performance. One SFP port is also available for connecting this device to other switches in your network, such as the 8500 series of switches.

#### Simplified Installation

The AT-FS708/POE provides wall-mount, rack-mount and desktop options giving users their choice of deployment locations. Fully auto-configuring AT-FS708/POE switch requires minimal set-up by the user. Auto-sensing ports enable seamless and simple connectivity between existing 10Mbps Ethernet and 100Mbps Fast Ethernet UTP devices—and all units can be installed in minutes. Every AT-FS708/POE switch is equipped with auto MDI/MDI-X across all ports for simple connection to other hubs and switches as well as automatic detection and classification of the PoE ports. Finally, easy to read top panel LEDs show ongoing switch status and simplify troubleshooting.

#### Quality and Reliability

Allied Telesis is a worldwide leader in unmanaged Ethernet switches. Shipping more than 250,000 each year, Allied Telesis offers proven reliability and industry recognized quality.

#### Key Features

- 8 10/100TX ports
- 1 SFP uplink port
- Auto detect and classification of PoE
- PoE capable on all 8 10/100TX ports (4 @ 15.4W max)
- IEEE 802.3af standard
- Non-blocking architecture
- Auto-negotiation ports
- Auto MDI/MDI-X on all ports
- Plug and Play installation
- Rack-mount, wall-mount and desktop hardware included

#### Power-saving Features

- Maximum switch power consumption, regular - 6.3W
- Maximum switch power consumption, with PoE - 77.5W
- Overnight mode - when PCs are powered off, the switch reduces power
- Power down mode
- Measure and minimize - checks the lengths of the cable and sends only enough power for specific cable length



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## Performance

Ethernet	10Mbps (half-duplex) 20Mbps (full-duplex)
Fast Ethernet	100Mbps (half-duplex) 200Mbps (full-duplex)
MAC addresses	8K
Packet buffer	768K
Half/full-duplex	
Auto-negotiation	
Auto MDI/MDI-X	on all ports

## Interface Connections

10/100TX	RJ-45
1 x SFP	

## Power Characteristics

Frequency	50 to 60Hz
Power requirements	90-240V AC
Power consumption	90W max
PoE power	48vDC, 65W
Switch power	12vDC, 20W

### AC voltage/frequency requirements:

100 - 240 VAC, 50/60 Hz

### AC input power consumption:

Eco friendly mode enabled with no PoE power 6.4 W maximum

Eco friendly mode enabled with max PoE power 79.2 W maximum

### PoE power

Available Power over Ethernet:	65 W @ 48vDC
IEEE 802.3af Class 3 (15.4 W):	Max 4 ports
IEEE 802.3af Class 2 (7.3 W):	Max 8 ports
IEEE 802.3af Mode:	Alternative A (MDI)

## Environmental Specifications

Operating temp	0 to 40°C (32 to 104°F)
Non-operating temp	-25 to 70°C (-13 to 158°F)
Operating humidity	10-90% non-condensing
Non-operating humidity	5-95% non-condensing
Vibration	IEC 68-2-36
Shock	IEC 68-2-29
Drop	IEC 68-2-32

## Physical Characteristics

Dimensions	26.5cm x 16.2cm x 4.3cm (10.4" x 6.4" x 1.7")
Weight	1.90kgs (4.20 lbs)

## Standards and Compliance

IEEE 802.3i	10T Ethernet
IEEE 802.3u	100TX Fast Ethernet
IEEE 802.3x	Flow control
IEEE 802.3af	Power over Ethernet, mode A

## Certification

UL1950 TUV UL  
C-Tick CE Mark  
FCC Part 15  
CISPR 22  
EN55022

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## LEDs

LED	State	Status
PWR	Green	The switch is powered ON.
	OFF	The switch has no power.

Each twisted pair port has two LEDs, as described in the table below.

## Twisted Pair Port LEDs

LED	State	Status
L/A	Green	A valid link is established on the port.
	Blinking Green	Frames are being transmitted/received on the port at 10 or 100Mbps.
	OFF	No link is established on the port.
PoE	Green	A PoE powered device is connected and is being powered by the port.
	Blinking Green	PoE is off because an error occurred on the powered device connected to the port.
	OFF	The port is not connecting to a valid powered device.

The table below describes the SFP port LED.

## SFP Port LEDs

LED	State	Status
L/A	Green	A valid link is established on the port.
	Blinking Green	Frames are being transmitted/received on the port at 10 or 100Mbps.
	OFF	No link is established on the port.

## Power Saving % Chart

Ports	Status	Non-green vs Green Power Saving %	
		3m cable	100m cable
		AC side	AC side
Overnight mode		15.4%	9.9%
8 port	Only link, no traffic	6.4%	5.0%
	Smartbit, 100% utilization TX	6.6%	5.3%
7 port	Only link, no traffic	6.7%	5.6%
	Smartbit, 100% utilization TX	6.9%	5.7%
6 port	Only link, no traffic	7.1%	6.2%
	Smartbit, 100% utilization TX	7.4%	6.4%
5 port	Only link, no traffic	7.9%	7.1%
	Smartbit, 100% utilization TX	8.1%	7.3%
4 port	Only link, no traffic	8.4%	7.6%
	Smartbit, 100% utilization TX	8.6%	7.8%
3 port	Only link, no traffic	9.2%	8.0%
	Smartbit, 100% utilization TX	9.3%	8.1%
2 port	Only link, no traffic	10.9%	8.6%
	Smartbit, 100% utilization TX	11.1%	9.1%

## Ordering Information

AT-FS708/POE-xx

8 port 10/100TX unmanaged PoE switch with 1 SFP

Where xx = 10 for US power cord  
30 for UK power cord  
40 for Australian power cord  
50 for European power cord

## SFP Modules

AT-SPSX

GbE multi-mode 850nm fiber

AT-SPLX10

GbE single-mode 1310nm fiber up to 10km

AT-SPLX40

GbE single-mode 1310nm fiber up to 40km

AT-SPLX40/1550

GbE single-mode 1550nm fiber up to 40km

AT-SPZX80

GbE single-mode 1550nm fiber up to 80km

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