

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 its 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 and fan 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. |
| 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. |

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

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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

Order number: 990-00028-00

AT-SPLX10

GbE single-mode 1310nm fiber up to 10km

Order number: 990-00029-00

AT-SPLX40

GbE single-mode 1310nm fiber up to 40km

Order number: 990-00161-00

AT-SPLX40/1550

GbE single-mode 1550nm fiber up to 40km

Order number: 990-00160-00

AT-SPZX80

GbE single-mode 1550nm fiber up to 80km

Order number: 990-00031-00

USA Headquarters | 19800 North Creek Parkway | Suite 100 | Bothell | WA 98011 | USA | T: +1 800 424 4284 | F: +1 425 481 3895

European Headquarters | Via Motta 24 | 6830 Chiasso | Switzerland | T: +41 91 69769.00 | F: +41 91 69769.11

Asia-Pacific Headquarters | 11 Tai Seng Link | Singapore | 534182 | T: +65 6383 3832 | F: +65 6383 3830

www.alliedtelesis.com

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