



## AT-PC232/POE

### 2 Port Fast Ethernet Speed/Media Converting Switch with Power over Ethernet

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2 port Fast Ethernet Power over Ethernet switch, 10/100TX to 100FX (SC), 2km

#### Powering Remote Devices

The PC232 series switches are the ideal solution for powering remote devices such as IP phones, video cameras, wireless access points, etc, which are more than 100m from a Power over Ethernet switch. The AT-PC232/POE features a 100FX fiber-port and a 10/100TX twisted-pair port. The fiber-optic port features an SC connector capable of operating at a distance of up to 2 kilometers (6,561 feet) over multi-mode fiber. The twisted-pair port has an RJ-45 connector with a maximum operating distance of 100 meters (328 feet). In addition to transmitting data, the twisted-pair port also injects power down the cable, allowing a remote Power over Ethernet Powered Device to operate without the need of any additional power source. All Power over Ethernet Powered Devices (IEEE 802.3af compliant) are supported, as the AT-PC232/POE can deliver a full 15.4W of power to the remote device.

#### VLAN Support

Many backbone switch products support the industry standard IEEE 802.1Q specification for Virtual LANs (VLANs) that send extra-long data packets on the network. The PC232 series switches are fully compatible with these long packets, enabling them to be used in modern networks. Switches not supporting this feature will discard these extra long packets, making them unsuitable for modern networks.

#### Small and Flexible

The small size and internal power supply of the PC232 series allows them to be used almost anywhere. The units can be desktop mounted or wall-mounted.

#### MissingLink™ and Smart MissingLink™ (SML)

The MissingLink feature allows the ports on the media converter to pass the Link status of their connections to each other. When the media converter detects a problem with a port - such as the loss of connection to a node - it shuts down the connection to the other port, thereby notifying the node that the connection has been lost. The Smart MissingLink (SML) feature monitors network connections and provides notification when network segments fail, allowing network managers to quickly identify the source and location of failed segments and minimize downtime.

#### Key Features

- Convert speed as well as media type
- IEEE 802.3af Power over Ethernet compliant
- Supplies up to 15.4W of PoE power
- Auto MDI/MDI-X
- MissingLink (ML)
- Smart MissingLink (SML)
- Supports 1532 bytes frame
- Support for multi-mode fiber
- Supports half and full-duplex operation
- 1k MAC address tables
- Store-and-forward switching mode
- Transparent to IEEE 802.1Q packets
- Standalone or wall-mountable
- Internal AC power supply
- AC power cord retaining clip

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## Status Indicators

### System LEDs:

Power	Indicates power is applied to the converter
Mode status	Indicates operating mode, MissingLink, Smart MissingLink and Link Test

### Per Fiber Port:

Link (LNK)	Indicates valid/invalid link
Activity (ACT)	Indicated data is being received or transmitted

### Per Copper Port:

Link (LNK)	Indicates valid/invalid link
Activity (ACT)	Indicated data is being received or transmitted
Speed (100)	Indicates whether the port is connected at 100Mbps or 10Mbps
Auto-negotiation (Auto NEG)	Indicates port is set for auto-negotiation

PoE Power (15W) Indicates that the remote device is a Class 0 or Class 3 PD device

PoE Power (7W) Indicates that the remote device is a Class 2 PD device

PoE Power (4W) Indicates that the remote device is a Class 1 PD device

## Operational Characteristics

(Each port can be configured via the following switches)

### Per Fiber Port:

Duplex Selects either full or half-duplex operation

### Per Copper Port:

Auto Selects auto-negotiation mode or manual setting

Duplex Forces port to full or half-duplex operation (auto setting = manual only)

100 Forces port to 10 or 100Mbps operation (auto setting = manual only)

MAC address table 1k addresses

Forwarding/filtering rate 148,880pps for 100Mbps  
14,880pps for 10Mbps

Latency 14.3µsec  
(64 byte packet, 100Mbps full-duplex)

Maximum packet size 1916 bytes

## Optical Characteristics

Wavelength 1310nm

Fiber cable 50/125um or 62.5/125um multi-mode fiber

### Output Power (dBm)

Min.	Typical	Max.
-22.5	-20.3	-14

### Receive Power (dBm)

Min.	Typical	Max.
-31.8	-34.5	-14

## Power Characteristics

Input voltage (auto-ranging)

Internal power supply 100-120V AC/60Hz,  
220-240V AC/50Hz

Power consumption 25W max

## Power over Ethernet

Operating mode IEEE 802.3af Mode A

Maximum power 15.4W

## Environmental Specifications

Operating temp. 0°C to 40°C

Storage temp. -25°C to 70°C

Relative humidity 5% to 95% non-condensing

Operating altitude 0 to 10,000 feet

## Physical Characteristics

Dimensions 15.5cm x 13.1cm x 4cm  
(W x D x H) (6.1" x 5.16" x 1.58")

Weight 0.748kg  
(1.65lb)

## Electrical/Mechanical Approvals

FCC Class B, EN55022 Class B, C-Tick, CE compliant

## Ordering Information

### AT-PC232/POE-xx

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Where xx = 10 AC power supply, US power cord  
20 AC power supply, European power cord  
30 AC power supply, UK power cord  
40 AC power supply, Australian power cord

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