00110010

# Allied Telesis

Media Converters | Product Information

# PC Series

PoE+ Media and Rate Converters



AT-PC200/SC

# Powering remote devices

Allied Telesis PC Series media converters 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 PC2000/SP features an SFP port supporting both 100MB and 1000MB optics and a 10/100/1000T Twisted Pair Port. Allied Telesis offers a wide variety of SFPs featuring multimode, single mode and BiDi optics.

The fixed fiber-optic port on these devices is available in SC (on 100MB and 1000MB devices) and LC (1000MB only). With these devices you can achieve distances up to 2 km (100MB) or 550 m (1000MB). With the SFP model, you can achieve greater distances using a long-range SFP. In addition to transmitting data, the twisted-pair port also injects power down the cable, allowing a remote PoE+ Powered Device to operate without the need of any additional power source. All PoE+ Devices (IEEE802.3at compliant) are supported, as the PC200x PoE+ Series can deliver a full 30W of power to the remote device.

### Remote power cycle

The PC Series supports a feature where when the fiber port is dropped the TX PoE+ port will cycle power. It allows a remote administrator to login in a switch and disable the switch port in which the PC Series is attached and will have the remote PoE+ device to lose power. This can be useful when an administrator needs to reset a remote device without actually physical going to the location.

### VLAN support

Many backbone switch products support the industry-standard IEEE 802.1Q specification for Virtual LANs (VLANs) that sends extra-long data packets on the network. PC 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 PC Series allows them to be used almost anywhere. They can in installed on a desktop, or wall mounted.

## Smart MissingLink<sup>™</sup> (SML)

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 802.3at Power over Ethernet (POE+) compliant
- ► Supplies up to 30W of PoE+ power
- Support 100 and 1000Mbps fiber SFP modules (PC2000/SP)
- ► Auto MDI/MDI-X
- Smart Missing Link ( (SML)
- Supports jumbo frames, up to 10K bytes
- ▶ Support for multi-mode fiber
- ▶ 4K 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
- ▶ No Fan/Silent operation
- Available in Trade Agreement Act (TAA) models (-90)

# 10/100/1000T Twisted Pair Port LEDs

The LEDs for the 10/100/1000T twisted pair port are described below.

LED	COLOR	DESCRIPTION
Left LED	Green	The port has established a link to a network device
	Blinking Green	Activity
	Off	The port has not established a link to a network device
PoE Power	Green	The twisted pair port is connected to a powered device and is providing power to the device
	Off	The twisted pair port is not supplying power to the network device connected to the port
Fault	Red	The PoE port is operational

## **DIP Switch**

FUNCTION	POSITION	DESCRIPTION
SML	On	Smart MissingLink feature enabled
	Off	Smart MissingLink feature disabled
100FD	Off	Auto Negotiate
	On	Forced 100-FD on copper
Remote PoE+	Off	Turned off
Control	On	PoE power is forced off when fiber link goes down

# **Fiber Port LEDs**

LED	COLOR	DESCRIPTION
LINK	Green	The port has established a link to a network device
	Blinking Green	Activity
	Off	The port has not established a link with a network device

Operational Ch		PC
MAC address table 1k a		
Forwarding/	1,488,000pps for 1Gbps	
filtering rate	148,880pps for 100Mbps	P
	14,880pps for 10Mbps	Inp
Latency	14.31sec	Int
	(64 byte packet, 100Mbps	
	full-duplex)	Po
Maximum packet	10,000 bytes size	
	.,	P
<b>Optical Charac</b>	terisitos	Op
Wavelength	1310nm (PC200)	Ma
wavolongal	850nm (PC2000)	
Fiber cable	50/125um (OM2) or	E
	62.5/125um (OM1) MMF	Op
	Up to 2 km (100MB)	Sto
	Up to 550 m (100MB)	Op
0ED		Re
SFP	See specific SFP, SMF datasheet	no
	at www.alliedtelesis.com	D

#### Transmit Power PC200

PC:

200	Min -19dBm
	Max -14 dBm
2000	Min -9.5dBm
	Max -4 dBm

Receive Power PC200 Min -32dBm Max -3 dBm

# PC2000 Min -17dBm Max -3 dBm

**Power Characteristics** 

put voltage (auto-ranging) ternal power supply 100-120V AC/60Hz, 220-240V AC/50Hz ower consumption 35W

Power over Ethernet Upertating mode IEEE 802.3at Mode A Maximum power 30W

#### Environmental Specifications

Operating temperature	0°C to 50°C (32°F to 122°F)
Storage temperature	-25°C to 70°C (-13°F to 158°F)
Operating altitude	Up to 3,048 m (10k ft)
Relative humidity	5% to 95% (non-condensing)

#### Physical Characteristics Dimensions (W x D x H) 15.5 cm x

ons (W x D x H)	15.5 cm x 14.9 cm x 4 cm
	(6.1 in x 5.16 in x 1.58 in)
	0.748 kg (1.65 lb)

# **Electrical/Mechanical Approvals**

FCC Class B EN55022 Class A C-Tick

Weight:

# **Ordering Information**

AT-PC2000/SC-xx 10/100/1000T POE+ to 1000SX/SC

AT-PC2000/SP-xx 10/100/1000T POE+ to SFP (100MB or 1000MB)

AT-PC2000/LC-xx 10/100/1000T P0E+ to 1000SX/LC

AT-PC200/SC-xx 10/100T POE+ to 100FX/SC

Where xx = 60 for AC power supply, multi-region (US,UK, AU, EU) 90 for AC power supply, US power cord, FED

### Accessories

Small Form Pluggables (SFPs)

AT-SPSX Multi-mode Fiber, GbE SFP

AT-SPL X10 Single-mode Fiber, 10 km, GbE SFP

AT-SPL X40 Single-mode Fiber, 40 km, GbE SFP

AT-SPBD10-xx 10 km BiDi GbE SMF SFP

AT-SPTX 10/100/1000T SFP (works at gig speed only on PC2000/SP)

AT-SPFX/2 Multi-mode Fiber, 2 km, 100FX, SFP

AT-SPFX/15 Single-mode Fiber, 15 km, 100FX, SFP

AT-SPFX/40 Single-mode Fiber, 40 km, 100FX, SFP

AT-SPBD20-xx/I 20 km BiDi GbE SMF SFP, I-Temp

# 🔨 🖉 Allied Telesis

**NETWORK SMARTER** 

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

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

 EMEA & CSA Operations
 Incheonweg 7
 1437 EK Rozenburg
 The Netherlands
 T: +31 20 7950020
 F: +31 20 7950021

#### alliedtelesis.com

© 2018 Allied Telesis, Inc. All rights reserved. Information in this document is subject to change without notice. All company names, logos, and product designs that are trademarks or registered trademarks are the property of their respective owners. 617-000627\_RevD