AT-Extender
For 802.3af PoE systems

Product Description – 802.3at 10/100 PoE Extender

This device extends PoE power and data for 100 mtr past the standard. It allows power to be carried on 10/100 network cables with either 802.3af , 802.3at, and have that power and data extended another 100 meters. Compatible with PoE switches or passive injectors with any CAT5e, CAT6 or CAT7 Ethernet network cable.

Intended for use with Cisco or similar PoE switches – this pass thru PoE solution maintains the remote device auto negotiation with the switch to activate power, and it uses some of that power to rebuild each data packet for error free retransmission another 100 meters. It is a compact and cost effective power solution. The PoE switch supplies 48 or 56 volts DC at the source location.   13 watts in delivers 12.5 watts out.   Repeat each 100 mtr as needed, max 2 extenders. See http://poe-world.com/calculator to determine maximum distances.

The PoE switch can send either polarity, and only 2 pairs are required. See also our GAT-Extender for gigabit speeds, and our UPoE models for power to 50 watts.   We also have passive PoE Extenders.

The device is symmetrical – either side can be used as the input or output.

Specifications

Power and data source	RJ 45 PoE in – male or female
Data speed	10/100
Power and data output	RJ45 PoE out – male or female
Input Voltage Max	Up to 57 volts
Power supply	powered after a client PoE device is attached, remains on without load
PoE Passthru	802.3af or 802.3at
Internal power use	500 mw
Operating Temperature	0°C - 50°C
Ethernet switch	IP175G as a 2 port, 802.3u fast low power switch
Vlan Support	Transparent
Size	95 x 24 x 31 mm plus 24 cm Ethernet cable.
PoE Power input Pins	Any combination of pins – either polarity – mode A or mode B
PoE Power output pins	Any combination of pins – either polarity – mode A or mode B
802.3af / 802.3at	Transparent - no impact on client class
LED status on Female RJ45	2 LEDs – one for each port to show an Ethernet connection