

Pace1KRT

Long Range Single Pair (UTP) Ethernet Adapter Kit



Description

Pace1KRT is a long range Ethernet adapter kit that transmits data and power via UTP (2-wire, twisted pair) in a PoE(+) compliant format. Pace1KR receiver is powered via a PoE midspan/endspan, such as the Altronix Netway series. The receiver passes the PoE compliant power over UTP (1000m) to the Pace1KT transceiver which, in turn, passes this power to an enabled IP camera/device.

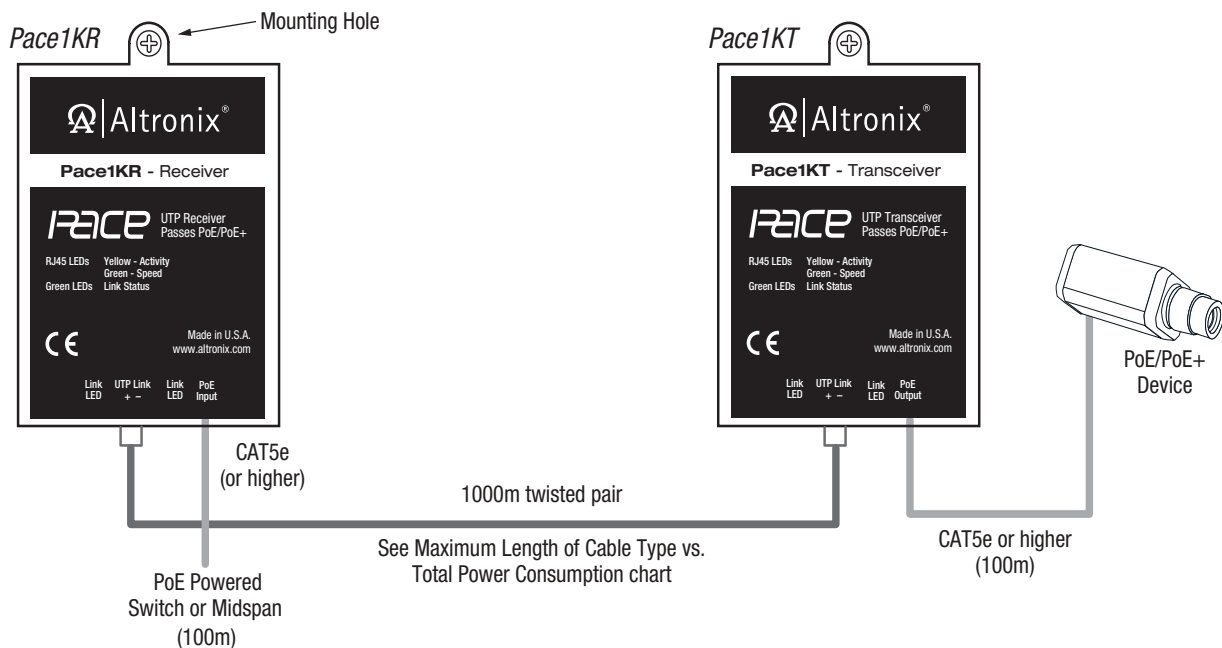


Pace1KRT

Key Features

- Utilizes twisted pair (UTP), to extend Ethernet range up to 1000m.
- Cost-effective solution to facilitate IP devices that need to be installed at longer distances such as in elevator shafts, tunnels, bridges, HVAC, and more...
- PoE, IEEE 802.3af (15W) and IEEE 802.3at (30W compliant)
- Auto detection and protection of legacy non-PoE cameras/devices.
- Works with Megapixel, HD720, HD1080 & VGA (SD) cameras.
- Extends Network link distance in an industrial environment.
- Building Automation, Surveillance & Security.
- Utilize twisted pair for new installations or retrofit of IP devices over existing twisted pair cabling.
- Kit includes: Pace1KR Receiver and Pace1KT Transceiver
- CE Approved.
- Lifetime Warranty

Typical Operation Diagram



Lifetime Warranty



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Specifications

Input

Pace1KR: Powered by midspan or endspan.
PoE compliant to IEEE 802.3af (15W) and
PoE+ compliant to IEEE 802.3at (30W).

Pace1KT: Powered by Pace1KR

UTP Connection

Wire type: Twisted pair (2-wire, UTP)

Distance: 1000m, 18/2 AWG @ 10Mbps
(see Maximum Length of Cable Type vs. Total Power Consumption
chart below)

Ethernet Connection

Connectivity: RJ45, auto-crossover.

Wire type: 4-pair, CAT5e or higher.

Distance: up to 100m from midspan to Pace1KR receiver
(headend), 100m from PaceKT transceiver to device

Speed: 10/100BaseT, half/full duplex, auto negotiation.

PoE: IEEE 802.3af (15W) and PoE+ compliant to IEEE 802.3at
(30W) delivered to device by Pace1KR Power provided by Pace1KR
to Pace1KT by PoE protocol.

Indicators (LED)

Green LED (left): PoE (link)

Green LED (right): Data transmission (link)

Yellow and Green LED (by RJ45 jack):
IP Link status, 10/100Base-T/active.

Agency Listings

CE European Conformity.

Physical and Environmental

Dimensions (W x L x H)

Pace1PKR and Pace1KT:
3.8" x 2.5" x 1" (96.52mm x 63.5mm x 25.4mm)..

Weight (approx.)

Product Weight 0.4 lbs. (0.18 kg).

Shipping Weight 1 lbs. (0.45 kg).

Temperature

Operating and Storage:

Pace1KR/PaceKT: -40°C to 75°C (-40° to 167°F).

Relative Humidity 85% +/-5%.

Operating Altitude: -304.8 to 2,000m.

Maximum Length of Cable Type vs. Total Power Consumption:

| Wire type | Total Power Consumption | Max. Data Distance | Max. Power Distance |
|-------------------------|-------------------------|--------------------|---------------------|
| 18 AWG (2-wire, UTP) | 7.5W | 1000m (3280 ft) | 1996m (6548ft.) |
| | 15W | 1000m (3280 ft) | 998m (3274 Ft.) |
| | 30W | 1000m (3280 ft) | 269m (882 ft) |
| 16 AWG (2-wire, UTP) | 7.5W | 1000m (3280 ft) | 3169m (10396 ft.) |
| | 15W | 1000m (3280 ft) | 1584m (5196 ft.) |
| | 30W | 1000m (3280 ft) | 427m (1400 ft.) |

Lifetime Warranty