

# Pace1KRT

## Long Range Single Pair (UTP) Ethernet Adapter Kit



Altronix Pace1KRT is a long-range Ethernet adapter kit solution that transmits data and power via twisted pair (2-wire, UTP or shielded) in a PoE(+) compliant format. In addition to new SPE (UTP) Ethernet network installations for Surveillance-cameras/Security/Industrial/BMS/HVAC & Elevator Controllers, applications include upgrading of legacy networks, i.e. LONworks, RS485, 4-20ma Control Loops, etc. by using the existing two wire cabling, thus saving rip-out & reinstallation costs.

Operationally, the Pace1KR is connected to a POE midspan/endspan switch at the headend and passes network data and power to the Pace1KT from the switch via UTP up to 1km (1,000m, 3,280 ft.) to a remote 10 PoE device, such as a camera. For non-PoE remote devices, data only is transmitted.



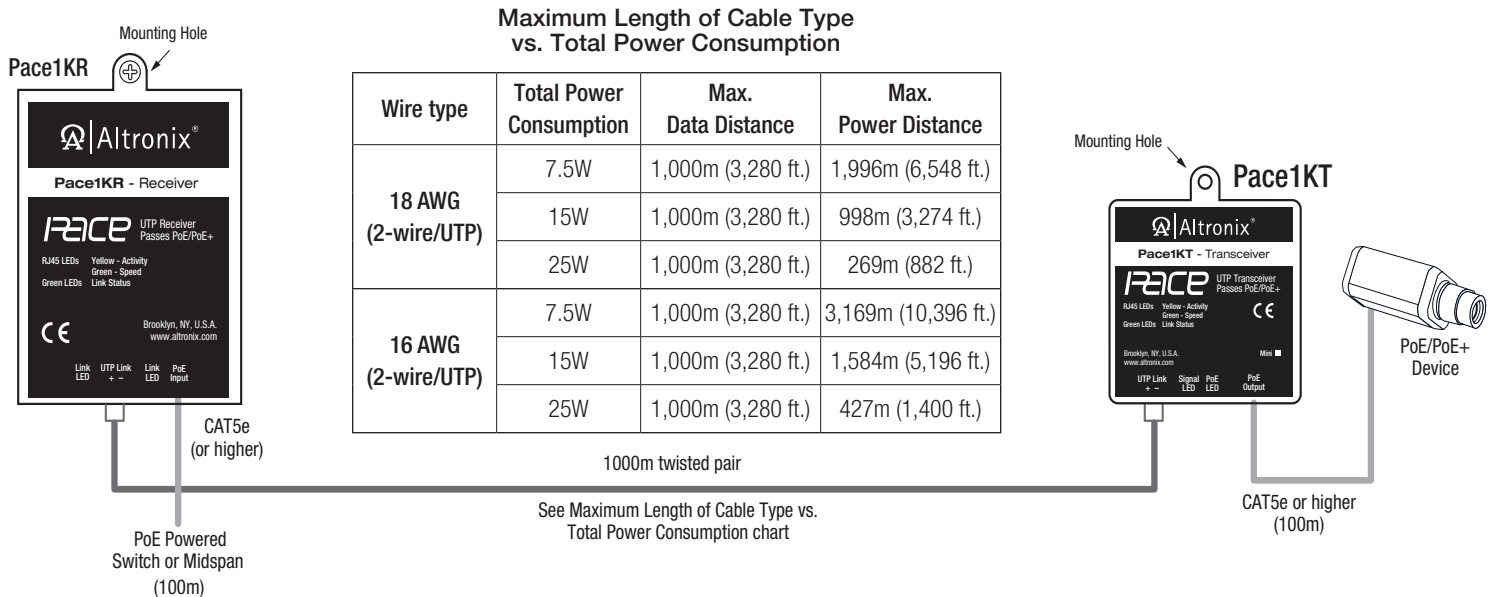
Pace1KRT

For dual port connectivity please see kit model: Pace2KRT

### Key Features

- Provides SPE (single pair Ethernet) over twisted pair (2-wire, UTP or shielded) or 16/2 AWG or higher wire up to 1km (1,000m, 3,280 ft.)
- Utilize twisted pair for new installations or retrofit of IP devices over existing twisted pair cabling
- 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 (25W) compliant
- Auto detection allows it to safely work with non-PoE cameras/devices
- Works with Megapixel, HD720, HD1080 & VGA (SD) cameras
- Extends Network link distance in an industrial environment
- Building Automation, Elevator Systems, HVAC, Lighting, 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  
*For dual port connectivity please see kit model: Pace2KRT*
- CE European Conformity
- Lifetime Warranty

### Typical Application Diagram



### Lifetime Warranty

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Long Range Single Pair (UTP) Ethernet Adapter Kit



## Specifications

### Input

- Pace1KR:** Powered by midspan or endspan  
PoE compliant to IEEE 802.3af (15W) and  
PoE+ compliant to IEEE 802.3at (25W)
- Pace1KT:** Powered by Pace1KR

### UTP Connection

- Wire type: Twisted pair (2-wire, UTP or shielded)
- Distance: 1km (1,000m, 3,280 ft.),  
16/2 AWG or higher @ 10Mbps
- (see Maximum Length of Cable Type vs. Total Power Consumption chart on *pg. 1*)

### 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: 10BaseT, half/full duplex, auto negotiation.
- PoE: IEEE 802.3af (15W) and PoE+ compliant to IEEE 802.3at (25W) 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, 10Base-T/active

### Agency Listings

- CE** European Conformity

### Physical and Environmental

#### Dimensions (W x L x H)

Enclosure:

#### Pace1KR:

2.5" x 3.8" x 1" (63.5mm x 96.5mm x 25.4mm)

#### Pace1KT:

2.27" x 2.65" x 1.12" (57.7mm x 67.2mm x 28.4mm)

Shipping: 8" x 6" x 5" (203.2mm x 152.4mm x 127mm)

#### Weight (approx.)

- Product:** 0.4 lb. (0.18 kg)
- Shipping:** 1 lb. (0.45 kg)

#### Temperature

- Operating:** - 40°C to 75°C (- 40° to 167°F)
- Storage:** - 40°C to 75°C (- 40° to 167°F)

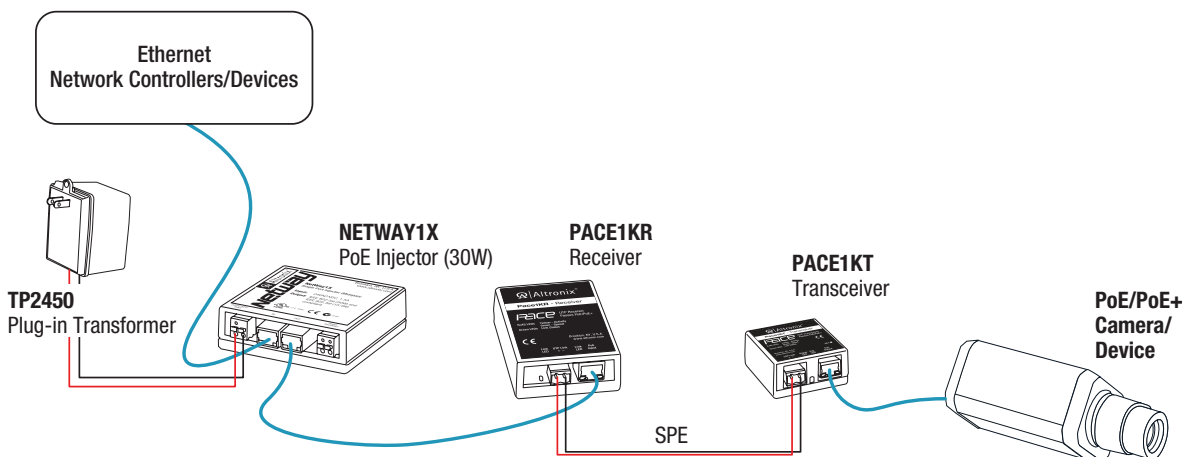
#### Relative Humidity

85% +/- 5%

#### Operating Altitude

- 304.8 to 2,000m

## Typical Operation Diagram



For dual port connectivity please see kit model: Pace2KRT

### Lifetime Warranty