

# Pace1KRT

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



Altronix 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. The paired set can be used to upgrade or adapt existing 2 wire deployed infrastructure control schemes, such as LON protocol to Ethernet networks.



Pace1KRT

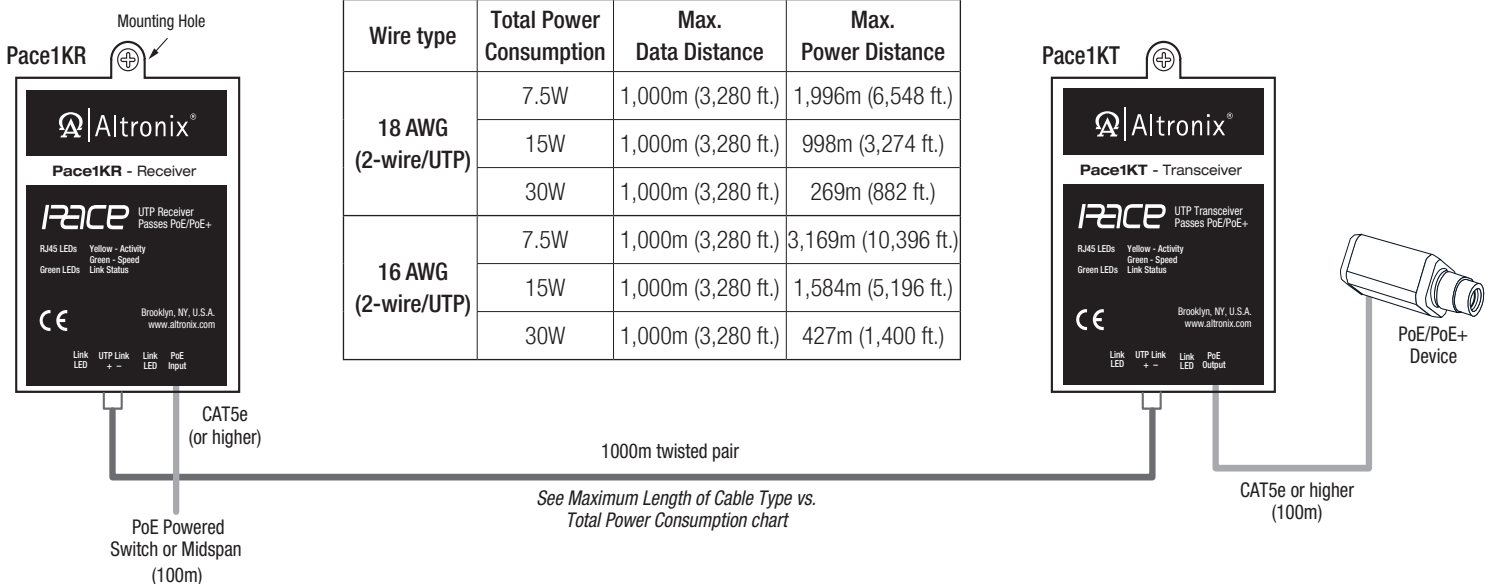
### Key Features

- 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, 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
- CE European Conformity
- Lifetime Warranty

### Typical Operation Diagram

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	1,000m (3,280 ft.)	1,996m (6,548 ft.)
	15W	1,000m (3,280 ft.)	998m (3,274 ft.)
	30W	1,000m (3,280 ft.)	269m (882 ft.)
16 AWG (2-wire/UTP)	7.5W	1,000m (3,280 ft.)	3,169m (10,396 ft.)
	15W	1,000m (3,280 ft.)	1,584m (5,196 ft.)
	30W	1,000m (3,280 ft.)	427m (1,400 ft.)



### 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

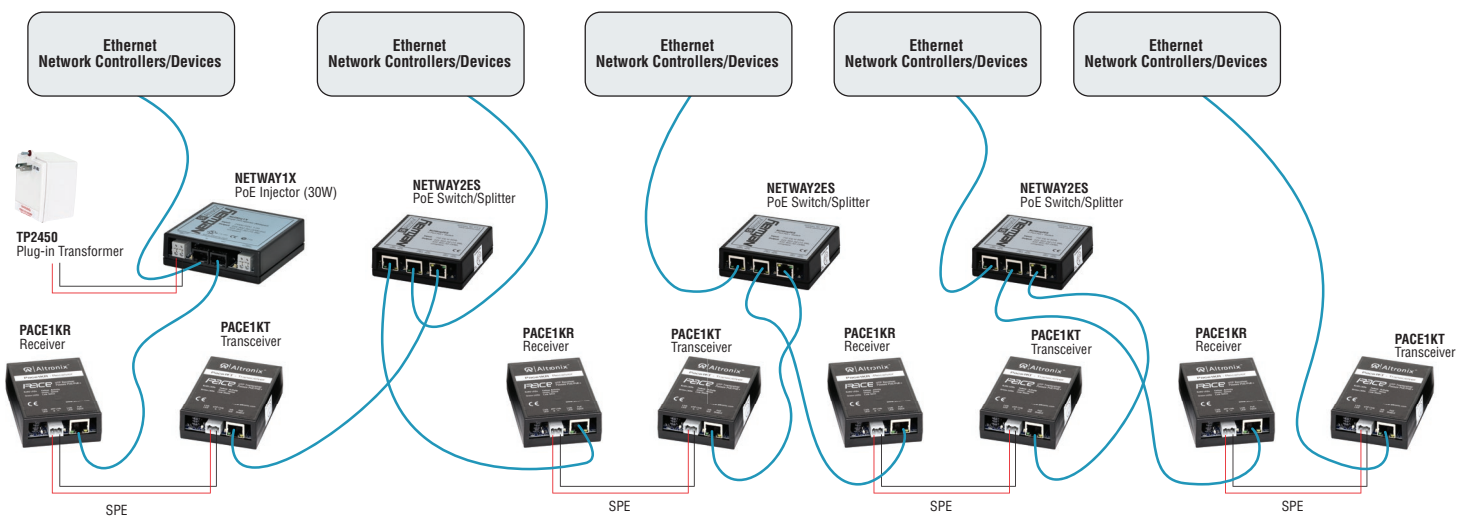
- CE** European Conformity

### Physical and Environmental

- Dimensions (W x L x H)**
  - Enclosure (Pace1PKR and Pace1KT): 2.5" x 3.8" x 1" (63.5mm x 96.5mm x 25.4mm)
  - 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

Multi-point SPE Application utilizing Altronix PoE Injector and PoE Splitter(s)



### Lifetime Warranty