

Pace2KRT

Long Range Single Pair (UTP) Ethernet Adapter Kit



Altronix Pace2KRT 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/Intercoms and 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 Pace2KT from the switch via UTP up to 1km (1,000m, 3,280 ft.) to two (2) remote 10/100 POE devices, such as a camera/s or controllers. Data is only supplied to the remote device for non-enabled devices. Cable distances and multi-node device drop-offs are facilitated by using one of the two Pace2KT ports for the continued network link in a daisy chain manner.



Pace2KRT

For single port connectivity please see kit model: Pace1KRT

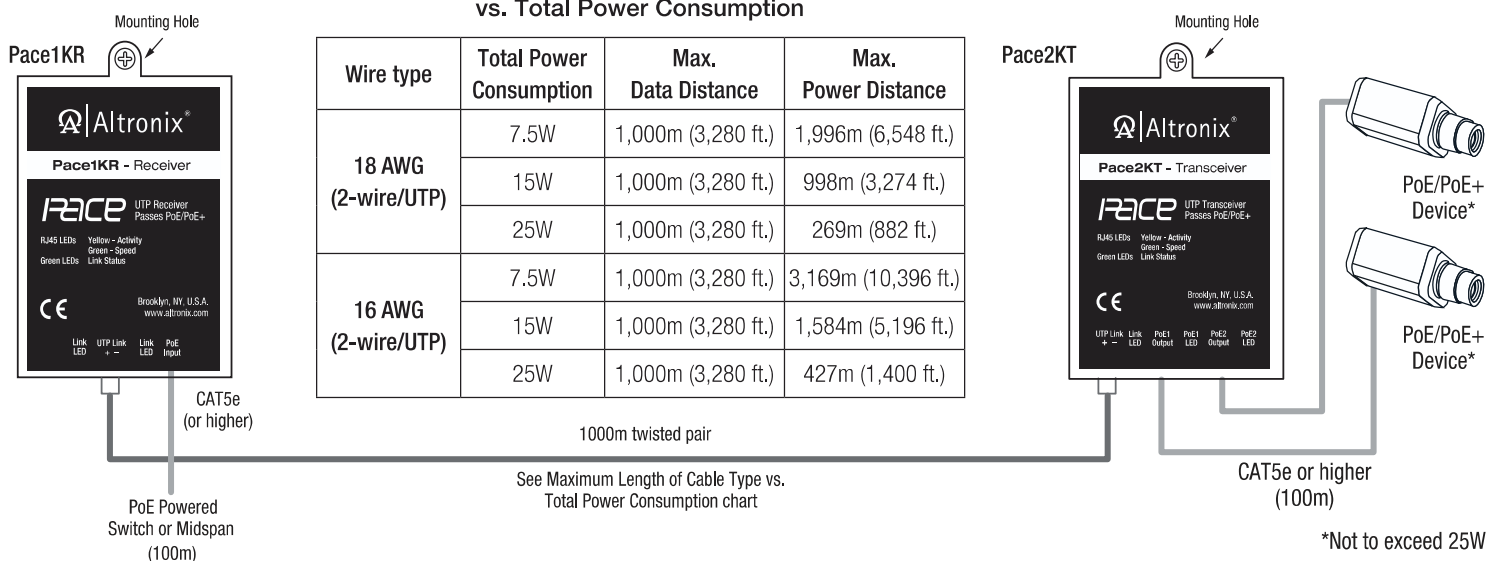
Key Features

- 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
- Extends Network link distance in an industrial environment: Building Automation, Elevator Systems, Intercoms, HVAC, Lighting, Surveillance & Security
- Works with Megapixel, HD720, HD1080 & VGA (SD) cameras
- Utilize twisted pair for new installations or retrofit of IP devices over existing twisted pair cabling
- Kit includes Pace1KR Receiver and Pace2KT Transceiver
- For single port connectivity please see kit model: Pace1KRT
- CE European Conformity
- Lifetime Warranty

Typical Application 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.)
	25W	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.)
	25W	1,000m (3,280 ft.)	427m (1,400 ft.)



Lifetime Warranty

Specifications

Input

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

Pace2KT: 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: 10/100BaseT, 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 Pace2KT 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°F to 167°F)
Storage: - 40°C to 75°C (- 40°F to 167°F)

Relative Humidity

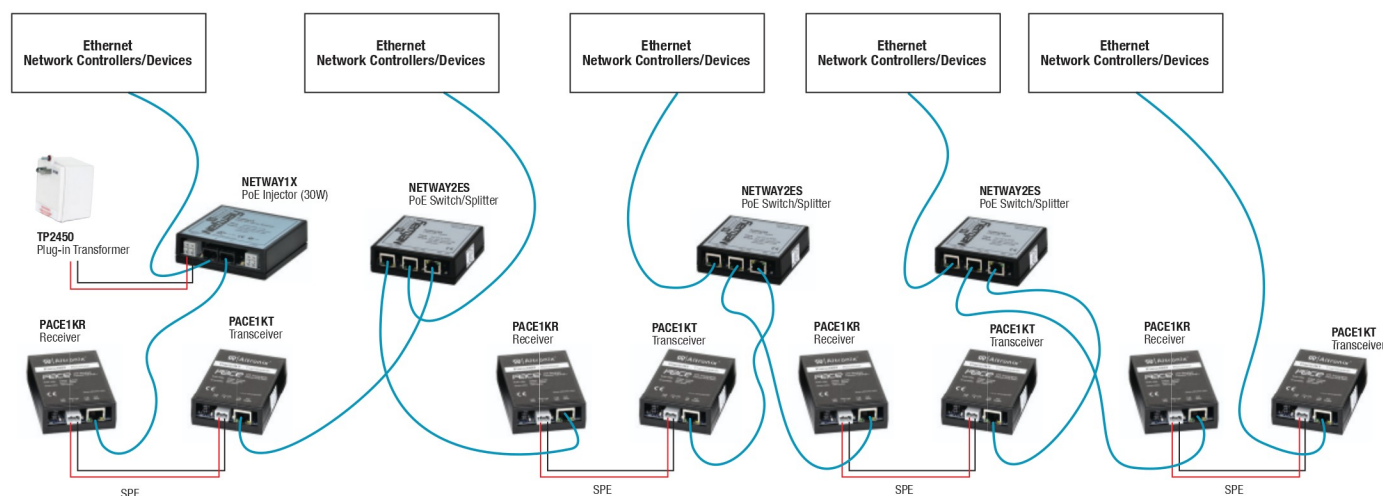
85% +/- 5%

Operating Altitude

- 304.8 to 2,000m

Typical Operation Diagram

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



Accessories



DCL2 - DIN Rail Mounting Clip

Allows for easy installation of Altronix adapters utilizing screw mounting holes to mount on a standard DIN rail (Altronix Din Rail models D10, D12, D19, or D24).

Lifetime Warranty