Altronix®

Pace1KL
10Base-T1L, IEE802.3cg Ethernet Media Adaptor

Altronix Pace1KL is a SPE (Single Pair Ethernet) media converter/adaptor that enables connecting 10Base-T1L, IEE802.3cg compliant devices such as Security/Industrial/BMS/ Elevators/HVAC Controllers and sensors, etc. to an Ethernet network. Long distance headend to remote-end device cabling can be achieved to over 1km (1,000m, 3,280 ft.).

In addition to new SPE (UTP) Ethernet network installations, upgrading of legacy networks, i.e. LONworks, RS485, 4-20mA Control Loops, etc. can be achieved by using the existing two wire cabling, thus saving rip-out & reinstallation costs.

Operationally, the Pace1KL is connected to a POE midspan/endspan switch at the headend and passes network data from the switch via UTP up to 1km (1,000m, 3,280 ft.) to the remote T1L device.
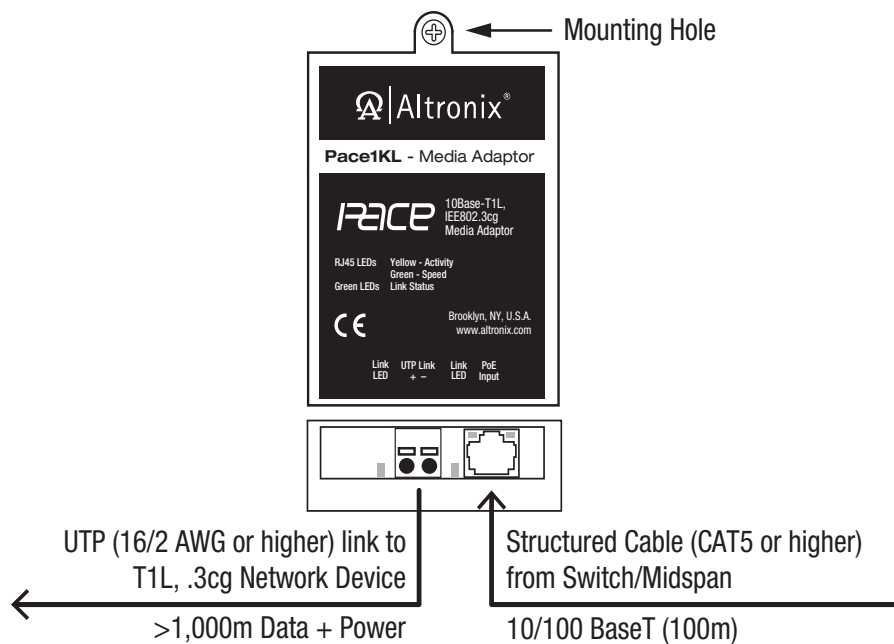
Pace1KL

Key Features

- Provides SPE (single pair Ethernet) over UTP (twisted pair) or 16/2 AWG or higher wire up to 1km (3,280 ft.)
- Utilize twisted pair for new installations or retrofit of IP devices over existing twisted pair cabling
- SPE Two Wire port: 10Base-T1L, IEE802.3cg protocol 10Mbps
- Ethernet port: 10/100BaseT, half/full duplex, auto negotiation

- Extends Network link distance in an industrial environment
- Building Automation, Surveillance & Security, BMS & HVAC, Elevators
- CE European Conformity
- Lifetime Warranty

Typical Application Diagram

Mounting Hole

UTP (16/2 AWG or higher) link to T1L, .3cg Network Device
>1,000m Data + Power

Structured Cable (CAT5 or higher) from Switch/Midspan
10/100 BaseT (100m)

Specifications

Input
Powered by PoE midspan or endspan

SPE (Single Pair Ethernet) over UTP or 16/2 AWG or Higher Link
Wire type: Twisted pair (2-wire, UTP)
Distance: 1km (1,000m, 3,280 ft.) @ 10Mbps

Ethernet
Connectivity: RJ45, auto-crossover
Wire type: 4-pair CAT5e or higher
Distance: up to 100m from midspan
Speed: 10/100BaseT, half/full duplex, auto negotiation

Indicators (LED)
Green LED (right):
                Data transmission (link) over SPE
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: 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: 0.22 lb. (0.1 kg)
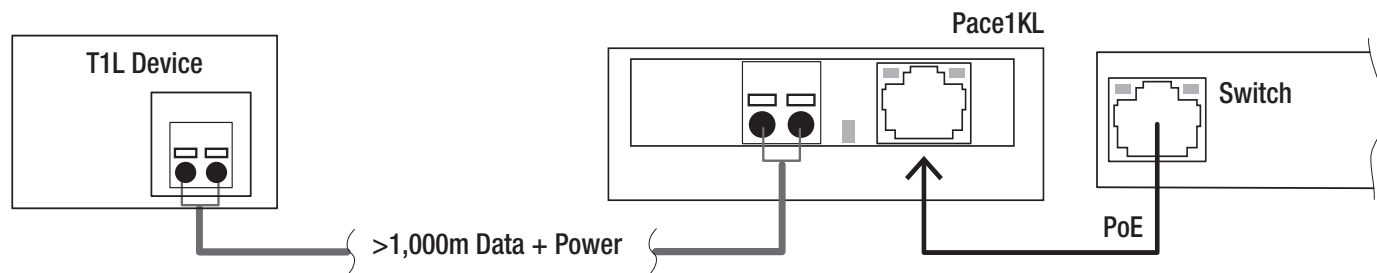 Shipping: 0.4 lb. (0.18 kg)
Temperature
  Operating: – 40ºC to 75ºC (– 40º to 167ºF)
  Storage: – 40ºC to 75ºC (– 40º to 167ºF)
Relative Humidity   85% +/– 5%
Operating Altitude – 304.8 to 2,000m

Typical Operation Diagram

T1L Device

Pace1KL

Switch

PoE

>1,000m Data + Power