Altronix®

Pace1KLDC
10Base-T1L, IEE 802.3cg Ethernet Media Adapter

Altronix Pace1KLDC is a SPE (Single Pair Ethernet) media converter/adapter 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 Pace1KLDC is powered via 12/24VDC or 12/24VAC at the headend, ethernet connection to the switch transmitting network data (10BaseT), and single pair Ethernet connection up to 1km (1,000m, 3,280 ft.) to the remote T1L device.
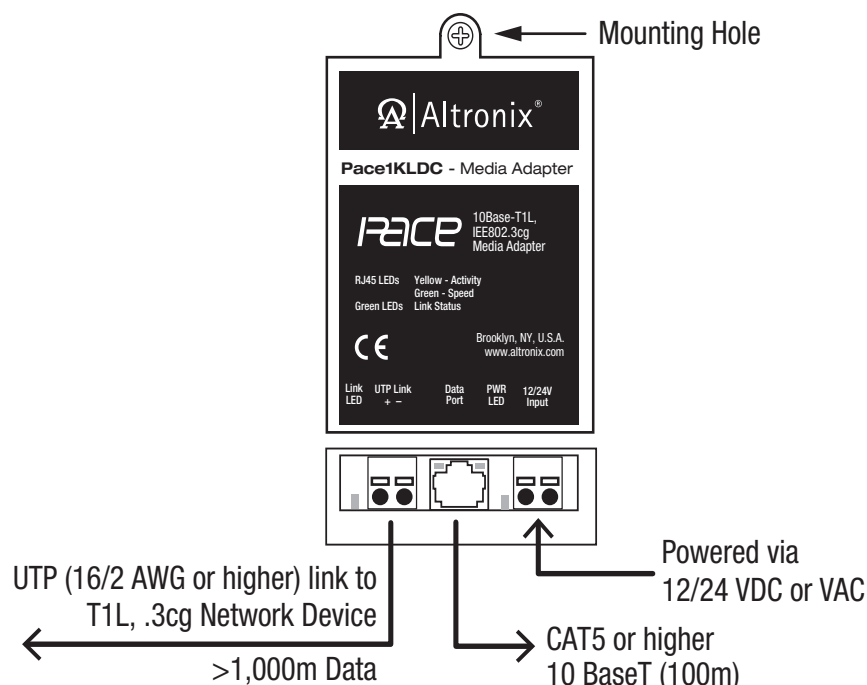
Pace1KLDC

For adapter powered via POE midspan/endspan, see model Pace1KLDC

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 a single pair for new installations or retrofit of IP devices over existing single pair infrastructure.
- SPE Two Wire port: 10Base-T1L, IEE802.3cg protocol 10Mbps
- Ethernet/Data port (10BaseT)

- 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

Powered via 12/24 VDC or VAC

CAT5 or higher 10 BaseT (100m)

Lifetime Warranty

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PACE™

Specifications

Input
Powered via 12/24VDC or 12V/24VAC

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

Indicators (LED)
Green LED:	Data transmission (link) over SPE
Red LED:	Power (12/24VDC)

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: 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

Pace1KLDC

>1,000m Data

Data via CAT5 or higher 10BaseT (100m)

12VDC or 24VDC from Power Supply
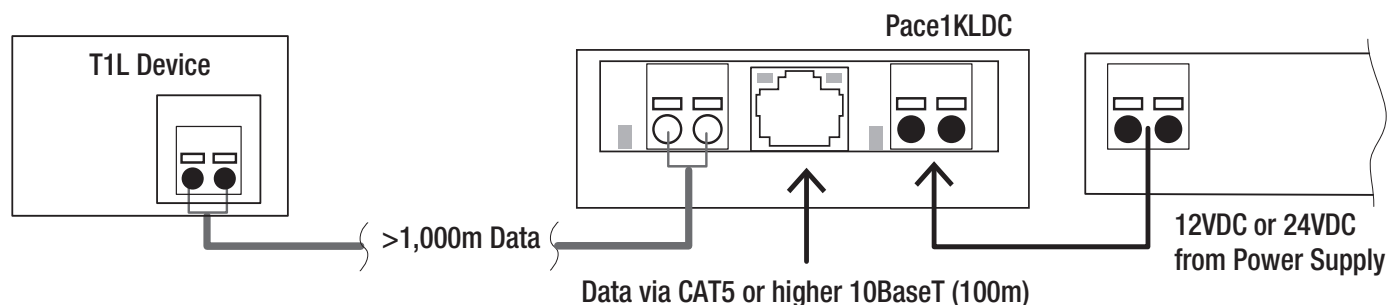
Accessories
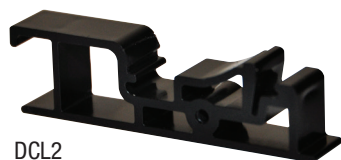
DCL2

DCL2 - DIN Rail Mounting Clip

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