

Pace4KL

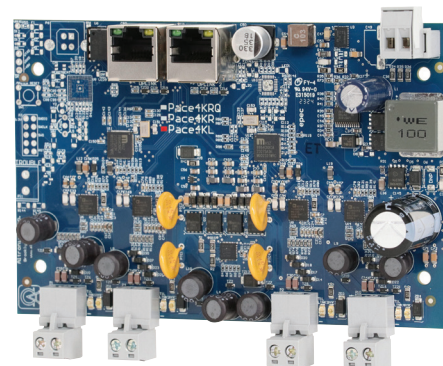
Four Port Single Pair Ethernet Media Adapter/Switch
IEEE 802.3cg Ethernet, 10Base-T1L SPE over UTP



Altronix Pace4KL is a SPE (Single Pair Ethernet) 4-port T1L Media Adapter/Switch that enables connecting up to four (4) 10Base-T1L, IEEE802.3cg compliant devices such as Security/Industrial/BMS/Elevators/HVAC Controllers and sensors, etc. to an Ethernet network. Long distance headend switch to remote-end device cabling can be achieved to over 1km (1,000m, 3,280 ft.). Pace4KL can be used in a typical star configuration. Up to four (4) Pace4KL can be daisy-chained to further expand the network.

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, Pace4KL is connected to a switch at the headend and is powered by the 12/24VDC power supply. Pace4KL passes network data from the switch via UTP up to 1km (1,000m, 3,280 ft.) to the remote T1L devices.

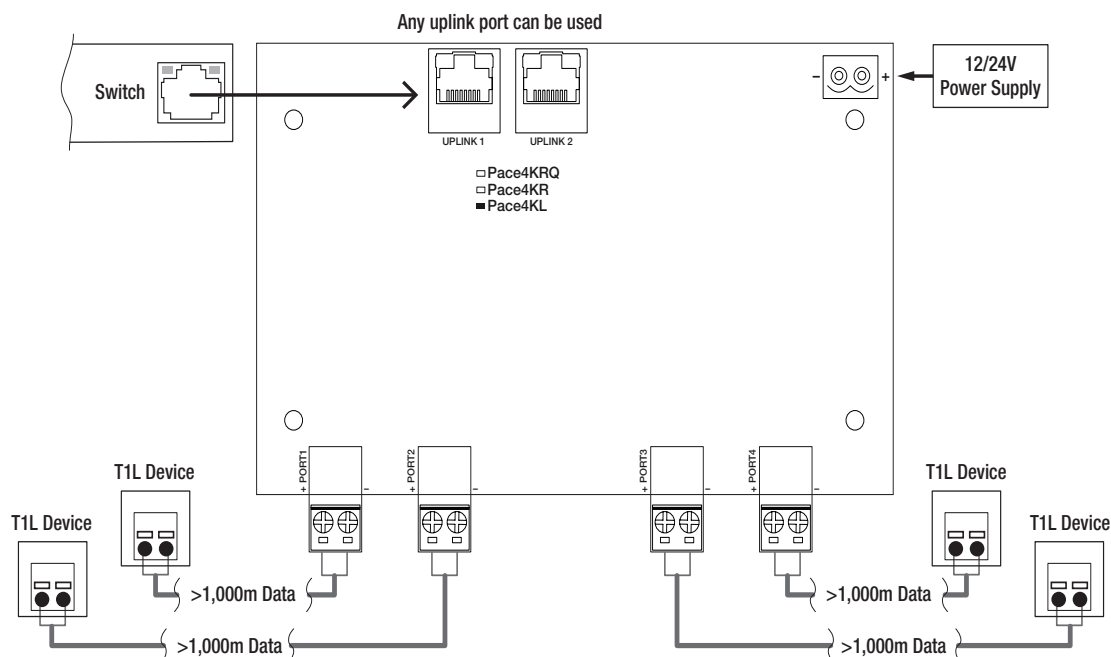


Pace4KL

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 ports: 10Base-T1L, IEEE802.3cg protocol 10Mbps
- Ethernet ports: 10/100BaseT, half/full duplex, auto negotiation
- Allows for Star or Multi-Point Drop Off configuration
- Extends Network link distance in an industrial environment
- Up to four (4) Pace4KL can be daisy-chained for expansion
- Building Automation, Surveillance & Security, BMS & HVAC, Elevators
- UL Listed in the U.S. and Canada
- CE European Conformity
- Lifetime Warranty

Typical Application Diagram



Lifetime Warranty

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Four Port Single Pair Ethernet Media Adapter/Switch
IEEE 802.3cg Ethernet, 10Base-T1L SPE over UTP



Specifications

Input

12/24V power supply (2.5W; 210mA @ 12V, 105mA @ 24V)

SPE (Single Pair Ethernet) over UTP or 16/2 AWG or Higher Link

Four (4) 10Base-T1L ports

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)

Yellow and Green LED (by RJ45 jack):

IP Link status, 10/100Base-T/active

Link LED for each T1L port

Agency Listings

UL/cUL

UL 62368-1

(Audio/Video, Information and
Communication Technology Equipment)
European Conformity

CE

Physical and Environmental

Dimensions (W x L x H)

Board: 5.5" x 3.6" x 1.125"

(139.7mm x 91.4mm x 28.6mm)

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

Weight (approx.)

Product: 0.4 lb. (0.18 kg)

Shipping: 0.75 lb. (0.34 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

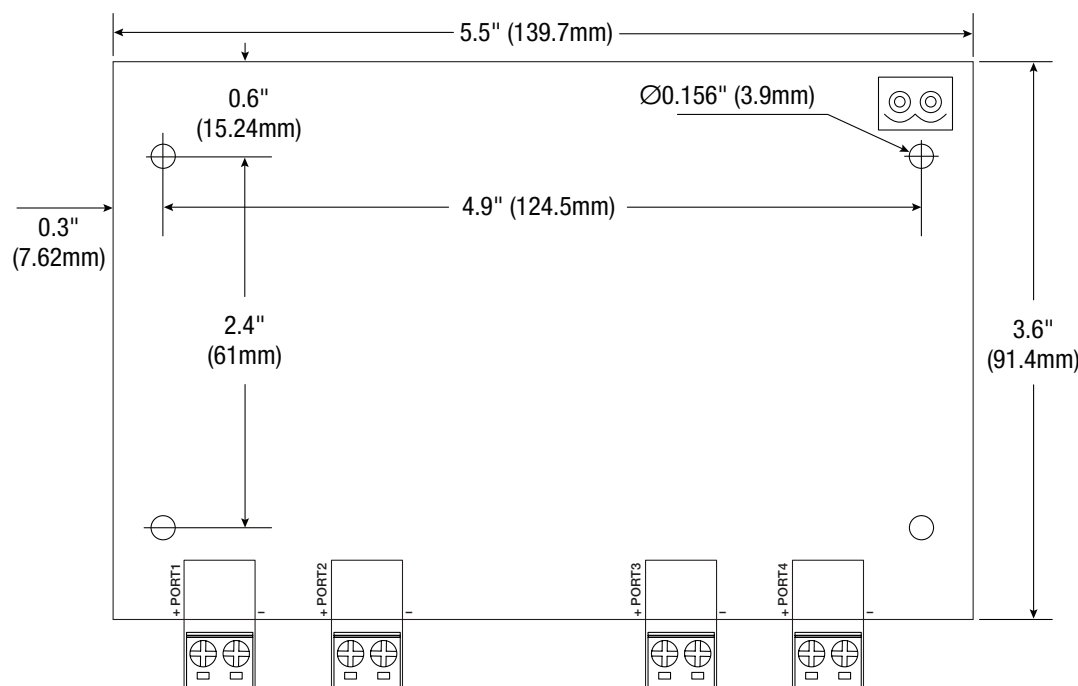
-304.8 to 2,000m

Dimensions and Drawing

Board Dimensions (L x W x H approximate)

5.5" x 3.6" x 1.125" (139.7mm x 91.4mm x 28.6mm)

Mounting Holes' Tolerance: +/- 0.04 in. (1mm)



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