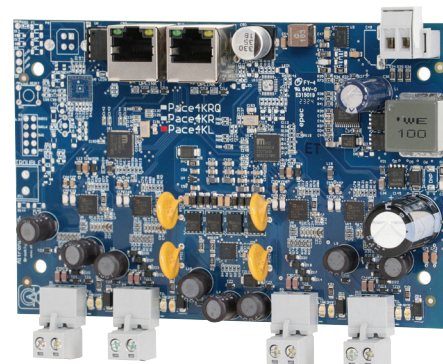# Pace4KL

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, IEE802.3cg 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.
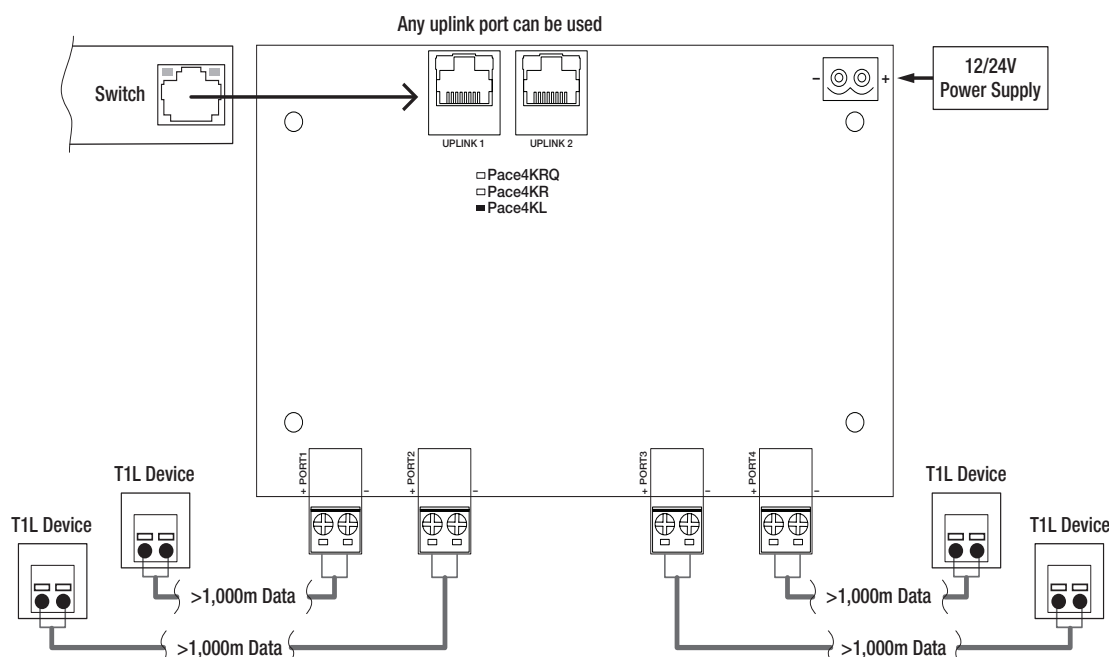
Pace4KL

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, IEE802.3cg 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

- CE European Conformity

- Lifetime Warranty

Typical Application Diagram

Lifetime Warranty

Altronix®

Pace4KL
Four Port Single Pair Ethernet Media Adapter/Switch
IEEE 802.3cg Ethernet, 10Base-T1L SPE over UTP

PACE™

Specifications

Input
12/24V power supply

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
CE   European Conformity

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: – 40ºC to 75ºC (– 40º to 167ºF)
  Storage: – 40ºC to 75ºC (– 40º to 167ºF)
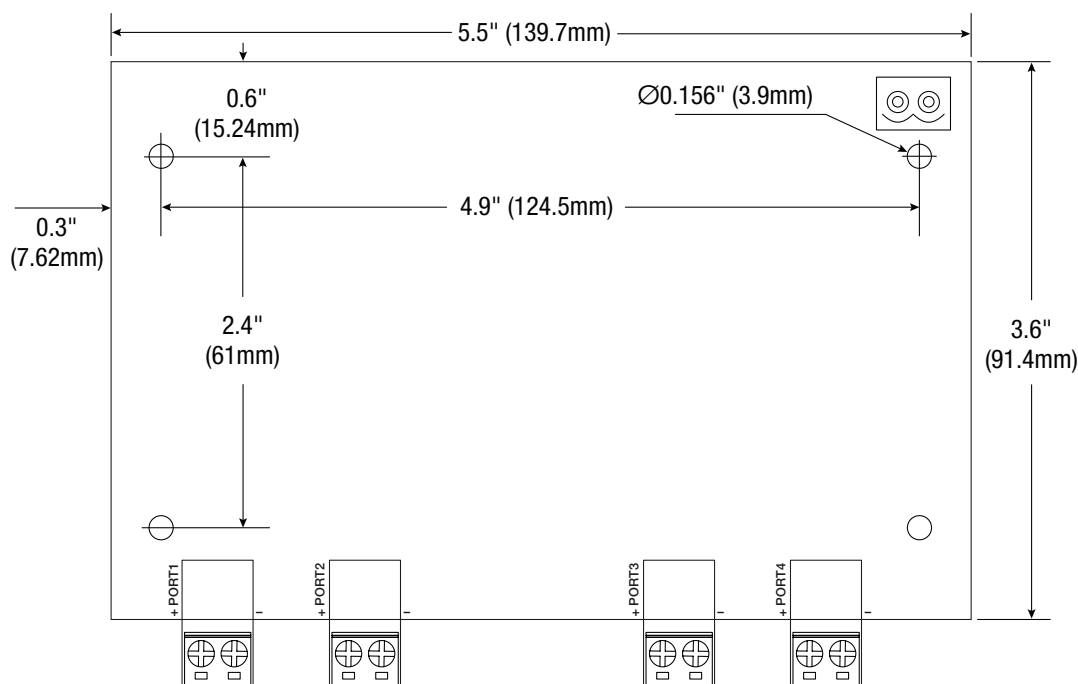Relative Humidity   85% +/– 5%
Operating Altitude – 304.8 to 2,000m

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)