Altronix®

Pace

DEPLOY T1L 802.3cg DEVICES UTILIZING SINGLE PAIR ETHERNET (TWO WIRE) INFRASTRUCTURE

UPGRADE EXISTING OR NEW SINGLE PAIR (SPE) SYSTEMS

- Ideal solution for industrial controllers, building/factory automation, intercoms/call systems, HVAC, temperature sensors, and more.
- Greatly reduce labor & cost when repurposing existing single pair infrastructure at 1000m+
- Enable communication and power to be delivered to devices eliminating the cost of deploying a remote power supply.
- SPE has all the benefits attached to Ethernet; noise immunity, error correction schemes, standard link connection protocols, encrypting...

Pace1KL
Single Port T1L-SPE Adapter
Enables connecting 10Base-T1L, IEE802.3cg compliant devices to the network (10Mbps). Pace1KL powered via PoE.
Pace1KLDC – Single Port T1L-SPE Adapter (Powered via 12/24V)

Pace3KL
3-Port T1L-SPE Adapter/Switch
Enables connecting multiple 10Base-T1L, IEEE802.3cg compliant devices to the network (10Mbps).
Powered by PoE or 12/24VDC. 10Mbps
Pace3KLC – 3-Port T1L-SPE Adapter (Powered via 12/24V)

Pace1KL12S
Single Port T1L-SPE Adapter (12VDC)
Enables connecting 10Base-T1L, IEEE802.3cg compliant devices to the network (10Mbps), while providing 12VDC power. Used with Pace1KR Receiver.
Pace1KL24S – Single Port T1L-SPE Adapter (24VDC)

*Pace adapters are DIN Rail mountable by utilizing Altronix **DCL2** adapter clip.*

Pace4KL(Q)
4-Port T1L-SPE Adapter/Switch (Board)
Enables connecting multiple 10Base-T1L, IEEE802.3cg compliant devices to the network (10Mbps). Powered by 12/24VDC.

Pace4KLQ features built-in LINQ™ Network Power Management which facilitates monitoring, reporting, and control of power/diagnostics.
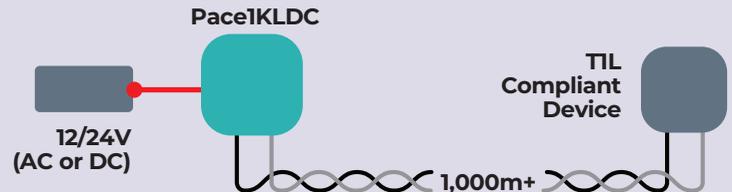
T1L Long Distant Link Solutions:

For installations that need to connect to a T1L compliant remote device,
Altronix offers the following Plug & Play solutions with flexible input power options:

Pace1KL: For point-to-point cable link (T1L Data Link)

Pace1KL

PoE Switch/Injector

T1L Compliant Device

1,000m+
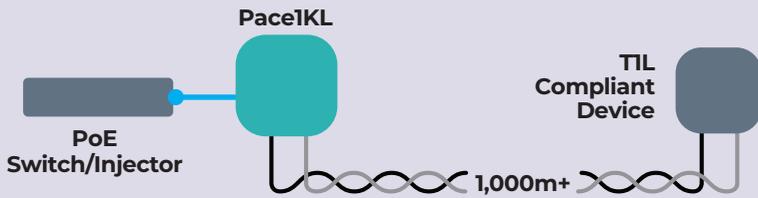
Pace1KLDC: For point-to-point cable link (T1L Data Link)

Pace1KLDC

12/24V (AC or DC)

T1L Compliant Device

1,000m+

Pace1KRL12S (12V) | Pace1KRL24S (24V) For point-to-point cable link (T1L Data & Split Power Link):

Pace1KR

PoE Switch/Injector

1,000m+

Pace1KL12S / Pace1KL24S
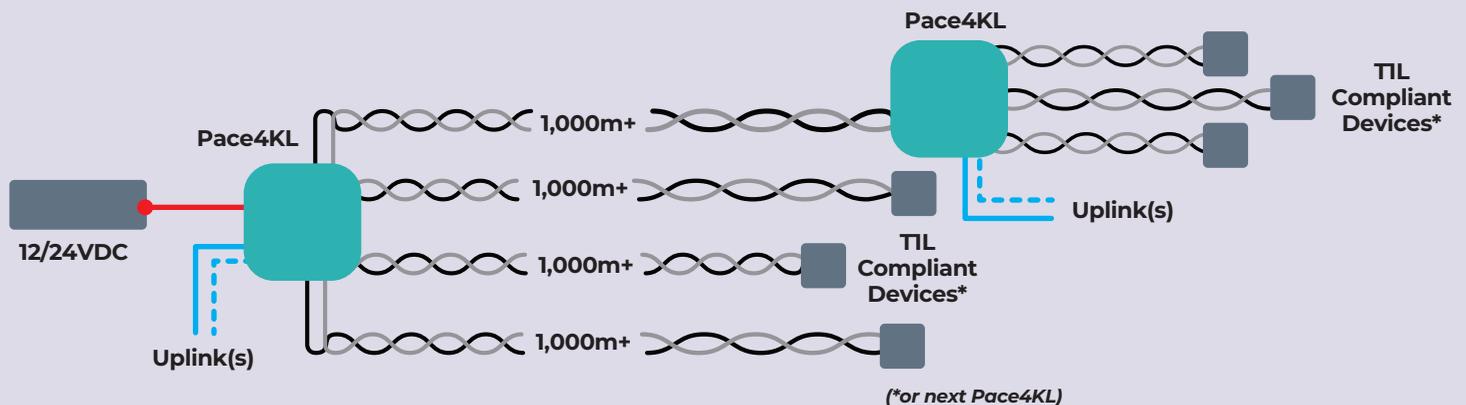
T1L Compliant Device (Data & Power 12V or 24V)

The above setup allows standard T1L data to communicate directly with the T1L remote device, but also splits out 24VDC (Pace1KL12S for 12VDC) to power the same device, thus saving a remote power supply. Since 802.3cg SCCL SPoE/PoDL capable devices are not popular, the above setup facilitates power for any T1L device that is powered by 12V or 24V, as currently are more popular on the market.

Pace3KL | Pace3KLC: For point to multi-point or star (Two wire cable links)

Pace3KL(C)

PoE Switch/Injector or 12/24VDC

1,000m+
1,000m+
1,000m+

Pace3KL(C)

T1L Compliant Devices

RJ45

T1L Compliant Devices*

(*or next Pace3KL(C))
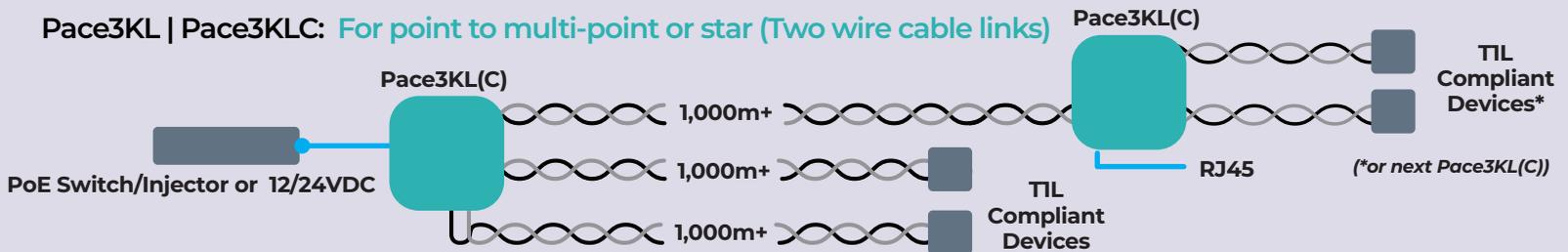
The above scheme shows the first Pace3KL in a typical star configuration, while the second Pace3KL shows how to configure for a continued multi-point drop-off using additional T1L switch to connect T1L compliant devices in multiple locations.

Pace4KL(Q): For Multi-point-to-multi-point cable link (PoE+ and data link)

Pace4KL

12/24VDC

Uplink(s)

1,000m+
1,000m+
1,000m+
1,000m+

Pace4KL

T1L Compliant Devices*

Uplink(s)

T1L Compliant Devices*

(*or next Pace4KL)

The Pace4KL T1L adaptor/switch can connect directly to up to four 3cg, T1L devices and feature dual network uplink ports. An additional Pace4KL can be added to the remote end to connect more compliant devices. Network managed versions allow for control, monitoring, and reporting of power diagnostics and feature a single network uplink port.