

periTUNNEL

Long Distance Ethernet Tunnel



... reuses existing cables for Ethernet.

No configuration, no software.

With up to 100 Mbit over 500 m (or 10 Mbit over 800 m) twisted pair cable, the periTUNNEL connects remote power distribution stations, roadwork traffic lights, power analyzers and similar infrastructure to Ethernet networks. HD video transmission is supported.

periTUNNEL is a tool-less solution using simple spring clamp terminals and 24 V power supply. Once installed, it automatically selects the optimal bandwidth (100 or 10 Mbit).

It keeps installation as simple as possible.

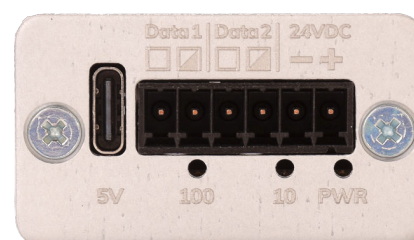
Key Features

- Works out of the box
- Selects highest working bandwidth automatically
- Ethernet and SPE (100Base-T1) compatible

Speed ¹	Cabling U/UTP	Range
100Mbit/s	2-wire CAT.5e	300m
100Mbit/s	4-wire CAT 5e	500m
10Mbit/s	2-wire CAT.5e	800m

¹ **Note:** The specified performance characteristics might vary depending on the conditions of the installation, cable and environment.

Clamp front panel



Interface	Description
USB-C	Power in (5VDC)
Data 1 ¹	negative positive
Data 2	negative positive
24VDC Power In	(-) (+)

¹ **Note:** For connecting SPE devices on interface Data 1, see *periTUNNEL Interface Configuration*

Operational Parameters

Temperature range: -40°C to +85°C
Operating voltage: 5V USB-C or 24V DC
Power consumption: 0.9W per device

Housing

Material: Aluminium
Ingress Protection Class: IP20
Dimensions: 23.9 x 34.3 x 100mm

Compliance

- RoHS 3 (EU 2015/863), WEEE (2012/19/EU), REACH, CE
- Immunity standard according to IEC 61000-6-2:2016
- Emission standard according to IEC 61000-6-3:2020

Typical Applications

periTUNNEL available in two versions:
RJ45-RJ45 or **RJ45-SPE**

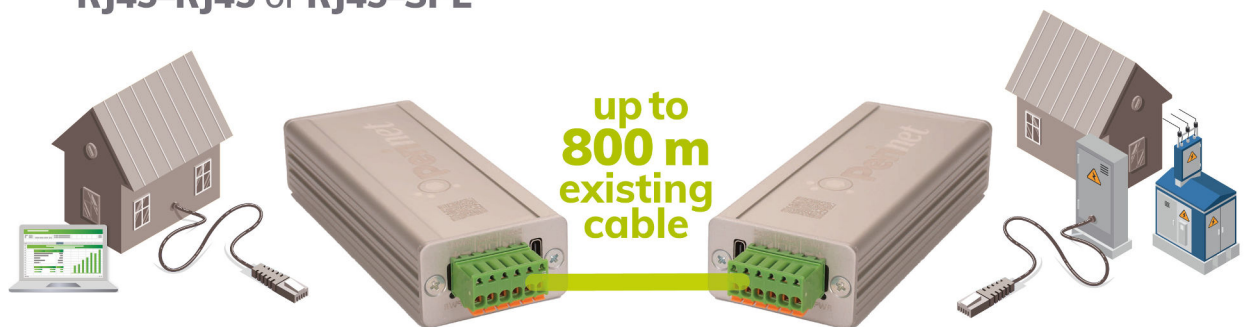


Figure 1: periTUNNEL tunneling Ethernet to remote devices

Ordering Information

Ordering Code	Product Name	Description
PRN.000.073	periTUNNEL Set RJ45-RJ45	Long Distance Ethernet Tunnel
PRN.000.074	periTUNNEL Set RJ45-SPE	Long Distance Ethernet to Single-Pair-Ethernet Tunnel

Related Products

Ordering Code	Product Name	Description
PRN.000.002	periNODE 0-10V	Smart adapter for 0 to 10V signal type
PRN.000.010	periNODE GPIO	Smart adapter for GPIO signal type
PRN.000.017	periLINE 0.2m	Hybrid SPE cable assembly (lengths 0.2m, 1m, 5m)