V271T/V271R

Long Reach PoE Extender Over Copper/Coax

Description

Yoda V271T/V271R Long Reach PoE Extenders are designed to extend the reach of Ethernet Data and IEEE 802.3at Power over Ethernet beyond its natural limitations of 100 m for the network infrastructure. The solution works in pairs for point to point connectivity. It features **V271T** Power over Copper/Coax PoE Extender(CO), the master unit at the central site that can transmit data and power over a single pair of telephone grade UTP wire /Coaxial cable up to 1,000 m. On the receiving end is **V271R** Power over Copper/Coax PoE Extender with 4 PoE(PSE) ports(CPE)**.** Without the need for local power supply, each V271R is equipped with four 10/100Base-TX IEEE 802.3at PoE PSE Ports for total power budget of 30W that can support any remote IEEE 802.3at/af powered device (PD) like Wi-Fi Access Point, IP phone, and IP Camera. It enables centralized management of power supply from a single location for easy, efficient and cost- effective installation. When enabling local power supply by dip switch, V271R can supply power budget of 30W to each one of the four PoE ports. **Yoda V271T/V271R Power over Copper/Coax Ethernet Extender** is an ideal long reach PoE extension solution for service providers to deploy networking applications in public areas that requires Wireless AP, IP Phones and IP Cameras.

Features

- Complies to IEEEE 802.3at/af PoE standards
- Simultaneous transmission of Ethernet data and PoE Power over UTP wire or coaxial cable
- Centralized management of power supply
- Eliminated the need for local power supply at remote sites
- Easy cabling for quick installation
- Long transmission distance up to 1000 m
- Quick deployment and easy maintenance
- Flexible and efficient power management
- Dip Switch to enable local power supply and provide full 30W to each of the four PoE ports

Application
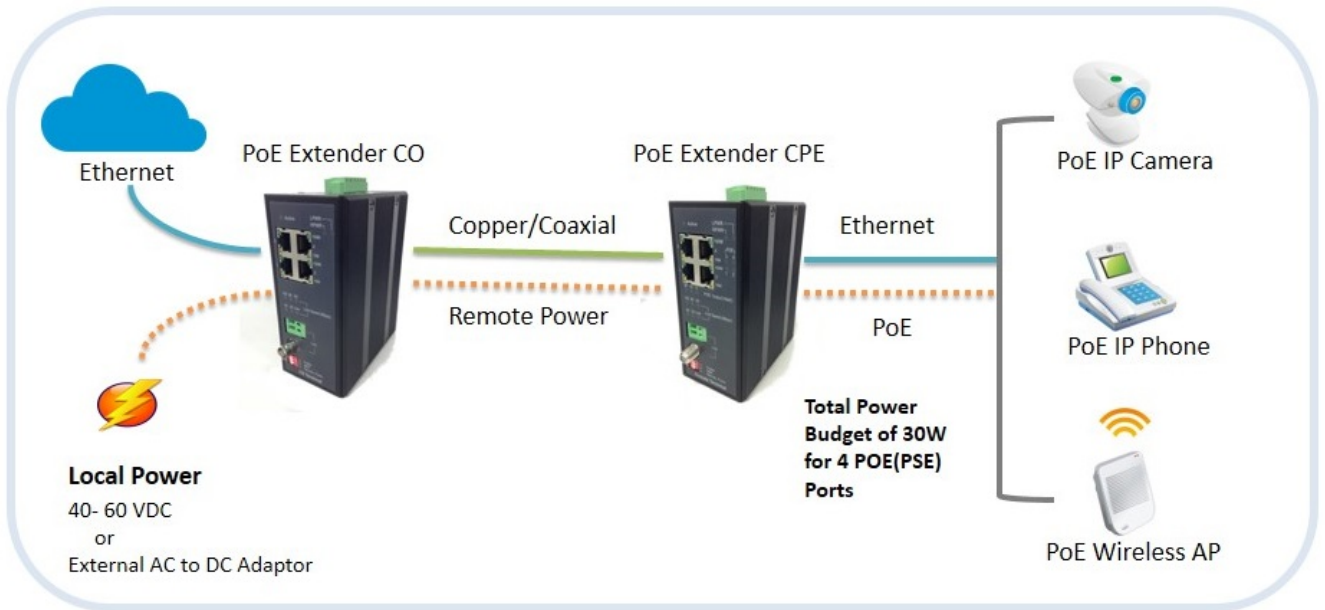
Remote Power Enable
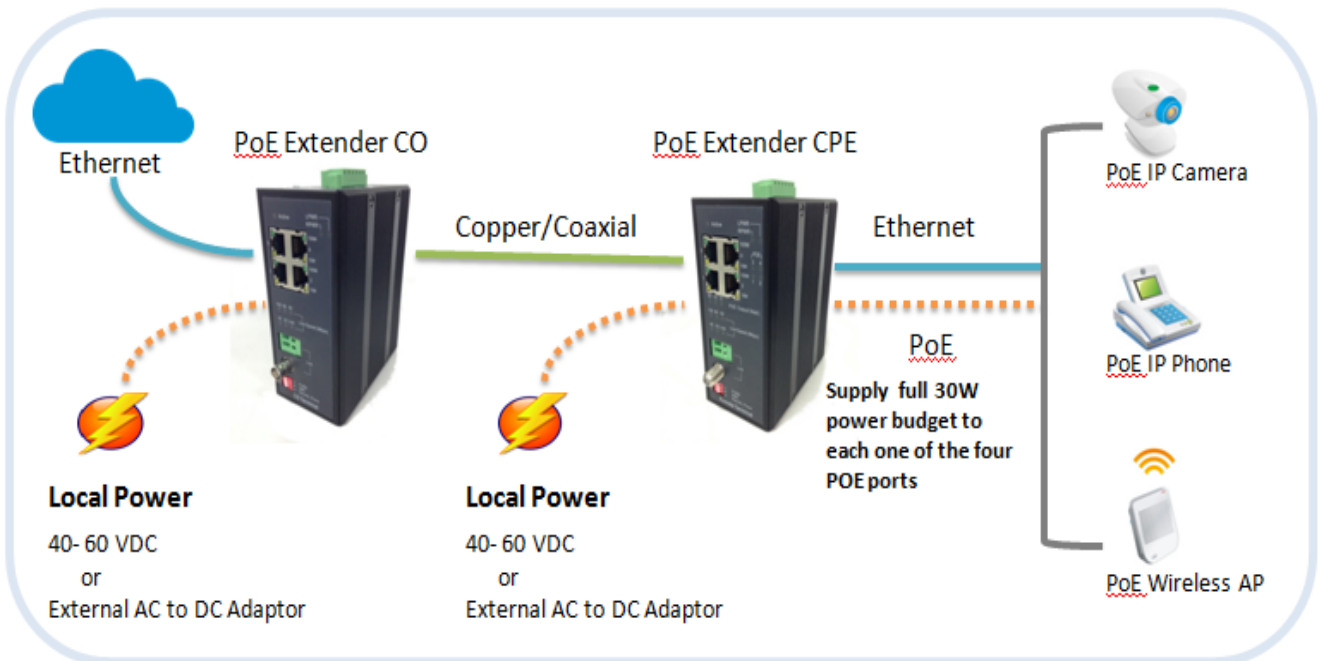
Remote Power Disable

Specifications

Hardware Interfaces:

V271T/V271R Power over Copper PoE Extender with four 10/100Base-TX IEEE 802.3at/af PoE Ports

- Terminal Block for Copper Port
- BNC Female for Coaxial Port
- 4 x RJ-45 10/100Base-TX IEEE 802.3at PoE Port

3 Position Dip Switch

- Selectable 30a or 17a(VDSL2 Profile)
- Selectable target SNR margin (6dB or 9dB)
- Selectable Remote Power(ON) or Local Power(OFF)

LED Indicators:

- Active: System Status
- LPWR/RPWR: Local Power/Remote Power
- POE: PoE Port Status
- Total PoE Output(Watts): 5/15/30
- Line Speed(Mbps): Link/20/40/60/80/100

Standards Support:

- VDSL2 ITU-T G.993.2
- VDSL2 Profiles: 17a and 30a

Protocol Support

- Transparent bridging to higher layer protocols

Operating Environment

- Operating Temperature: -40°C to 75°C
- Storage Temperature: -40°C to 85°C
- Humidity: 10% - 95% (non-condensing)

Physical/Electrical

- Hardened aluminum case, IP30
- Dimensions: 62 x 135 x 106.5 mm
- Input Voltage: 40 to 60 VDC
- Power Consumption: 65 Watts maximum
- Installation: DIN-Rail, Panel Rack Mounting
- Over current protection
- Automatic short protection

Regulatory Compliance

- CE
- FCC Part 15 Class B
- EN60950

Performance

Power over Copper, 24AWG copper wire		
Distance	Line Rate	PoE power (Watt)
300m	100Mbps	30W
600m	65Mbps	15W
700m	50Mbps	10W
800m	45Mbps	7W
1000m	35Mbps	5W

Order Information

V271T (Master/CO)	Power over Copper/Coax PoE Ethernet Extender with 4 ports FE switch
V271R (Client/RT)	Power over Copper/Coax PoE Ethernet Extender with 4 PoE PSE ports
Optional Accessory	Terminal Block Type External AC to DC Power Adaptor (120 Watts)