PR102

2-port PoE Repeater

PR102 Front View

PR102 Rear View

PR102-ODU
Front View

PR102-ODU
Side View

PR102 is a 2-poprt Power-over-Ethernet (PoE) Repeater providing a 100/100Mbps Ethernet transmission for 100m distance and with 2 Ethernet switch ports extending individually another 100m with power over Ethernet capability. It forwards both Ethernet and PoE for another 330ft (100m) using an innovative power-processing scheme and multiple units can be deployed in series for even longer distances, with no degradation in network speed or latency. PR102 itself is powered by an Ethernet PoE switch (or PoE injector) and so requires no separate power connection in the middle of the cable, making it extremely easy to connect and power IP cameras two or three times further than previously possible without going to fiber or installing midspan power sources.

In the simplest application, a PR102 allows to connect two PoE Devices (PDs) located 200 meters away from the POE switch. The switch delivers PoE power over the first 100 meters of Cat5 cable to the PR102, and the PR102 restores the Ethernet signal and forwards remaining POE power to the PDs 100m away. The PR102 requires no local power supply, and the PR102 presents no restriction to the Ethernet network connection. Typically, the PoE switch would be confined to a centrally located equipment room, and would connect to several PDs distributed about the site. With PR102, each PD may have its own dedicated connection to the switch, and power cable installation to remote switches would not be required.

Advantages:

- Extends Ethernet cable installations for another 100 meters
- 2-Port Ethernet Power Sourcing Equipment (PSE)
- No power cable installation required
- Fully Ethernet protocol transparent – no restrictions to network traffic
- 100Mbps Ethernet Wire Speed
- Compatible with IEEE 802.3af PoE standard
- IP65 Weather-Proof for PR102-ODU outdoor unit
- Simple to install – Plug & Play

PoE Repeater Specifications:

Ethernet Interface:

- IEEE 802.3x, Auto-Detection for 10/100BaseT and full/half duplex
- Automatic MDIX function
- PoE Input Port: RJ-45 Connector x 1
- PoE Output Port :   RJ-45 Connector x 2
- Port-based VLAN function for LAN ports

POWER:

- IEEE 802.3af Compliant with voltage within 44-57Volt
- Maximum Power Dissipation: 2.5 Watts

LED Indicators:

- **POWER:**   Power is ON **POE OUT1:**   Data Activity of POE Out1 Port
- **POE IN:** Data Activity of POE in Port   **POE OUT2:** Data Activity of POE Out2 Port

Regulations & Approvals:

- FCC Rules Part 15
- CE

Physical Dimension:

PR102 WxDxH: 120 x 90 x 28 (mm)   PR102-ODU WxDxH: 180 x 165 x 95 (mm)

Operating Environment:

- Humidity: 5% to 95% non-condensing   Temperature: 0 ~ 50 degree C

Application Diagram:

2-Port PoE Repeaters

POE
Ethorny Switch
<-- 100 m -->   <-- 100 m -->   <-- 100 m -->
Power
PR102   PR102
PR102-ODU