

# PR100GA

## Gigabit 802.3at PoE Repeater



PR100GA Front View



PR100GA Rear View



PR100GA-ODU  
Front View



PR100GA-ODU  
Side View

PR100GA is a gigabit 802.3at Power-over-Ethernet (PoE+) Repeater providing a 10/100/1000Mbps Ethernet transmission for 100-meter distance with one Gigabit Ethernet LAN port extending another 100-meter with power over Ethernet capability, plus another Gigabit Ethernet LAN port without PoE. It forwards both 10/100/1000M 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 without degradation in network speed or latency.

Powered by a 10/100/1000Mbps PoE switch (or PoE injector), PR100GA requires no local power in the middle of the cable making it extremely easy to connect and power IP cameras for two or three times further.

For a simple application, a PR100GA allows to connect one PoE Device (PD) located 200 meters away from the Gigabit Ethernet PoE switch. The PoE switch delivers PoE power over the first 100 meters of Cat5E cable to the PR100GA, and the PR100GA restores the Ethernet signal and forwards remaining PoE power to the PD 100m away. The PR100GA requires no local power supply, and the PR100GA presents no restriction

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to the Ethernet network connection. Outdoor units of PR100GA-ODU are also available with IP65 rating enclosures.

### Advantages:

- Extends Ethernet cable installation for another 100 meters
- No local power required
- Fully 10/100/1000M Ethernet protocol transparent – no restrictions to network traffic
- 10/100/1000Mbps Ethernet Wire Speed
- Compatible with IEEE 802.3at/af PoE and midspan PoE standard
- IP65 Weather-Proof for PR100GA-ODU outdoor unit
- Simple installation – Plug & Play

### PoE Repeater Specifications:

#### Ethernet Interface:

- IEEE 802.3x, Auto-Detection for 10/100/1000BaseT and full/half duplex
- Automatic MDI/MDIX function
- PoE Input Port: RJ-45 Connector x 1
- PoE Output Port : RJ-45 Connector x 1
- Port-based VLAN function for LAN ports (option)

#### POWER:

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

#### LED Indicators:

- **POWER:** Power is ON
- **POE IN:** GE Port with PoE IN
- **DATA OUT:** GE Port
- **POE OUT:** GE Port with PoE OUT

#### Regulations & Approvals:

- FCC Rules Part 15
- CE

#### Physical Dimension:

**PR100GA** WxDxH: 120 x 90 x 28 (mm)

**PR100GA-ODU** WxDxH: 180 x 165 x 95 (mm)

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Operating Environment:

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

**Application: IP Surveillances with PR100GA**

