## PR102GB

# 2-port GbE 802.3bt PoE Repeater



PR102GB Front View



PR102GB Rear View



PR102GB-ODU Front View



PR102GB-ODU Side View

PR102GB is a Gigabit IEEE802.3bt Power-over-Ethernet (PoE++) Repeater providing a 10/100/1000Mbps Ethernet transmission for 100-meter distance with two Gigabit Ethernet LAN port extending another 100-meter with PoE capability. 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 longer distances without degradation in network speed or latency.

Powered by a 10/100/1000Mbps PoE switch (or PoE injector), PR102GB requires no local power in the middle of the cable making it extremely easy to connect and power IP cameras for at least 3~4 times further distance.

For a simple application, a PR102GB 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 PR102GB, and the PR102GB restores the Ethernet signal and forwards remaining PoE power to the PD 100m away. The PR102GB requires no local power supply, and the PR102GB presents no restriction to the Ethernet network connection. Outdoor units of PR102GB-ODU are also available with IP65 rating enclosures.



#### **Advantages:**

- 2-port Repeat and extend the Power over 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 802.3bt/at/af PoE and midspan PoE standard
- IP65 Weather-Proof for PR102GB-ODU outdoor unit
- Simple installation Plug & Play

### 2-port 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:
   PoE Output Port:
   RJ-45 Connector x 1
   RJ-45 Connector x 2
- Port-based VLAN function for LAN ports (option)

#### **POWER:**

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

#### **LED Indicators:**

POWER: Power is ON
 POE OUT1: GE Port with PoE OUT
 POE IN: GE Port with PoE IN
 POE OUT2: GE Port with PoE OUT

#### Regulations & Approvals:

- FCC Rules Part 15
- CE

#### **Physical Dimension:**

PR102GB WxDxH: 132.1 x 90 x 28 (mm)
PR102GB-ODU WxDxH: 180 x 165 x 95 (mm)

#### **Operating Environment:**

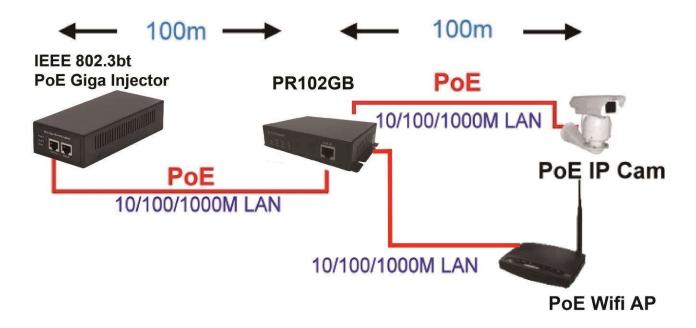
■ Humidity: 5% to 95% non-condensing
Temperature: 0 ~ 50 degree C

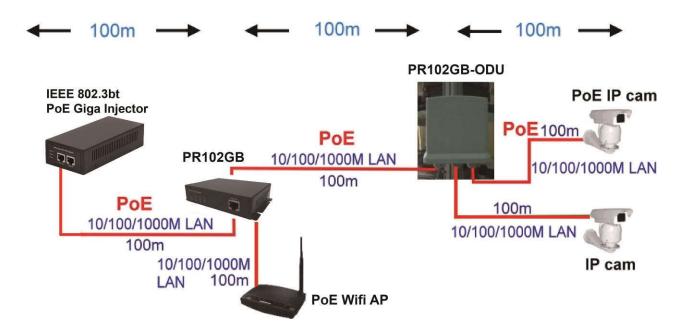
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## **Applications:** IP Surveillances with PR102GB





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### **Power Test Results:**

## Max. Output Power of PR102GBs at distance 200~500 meters

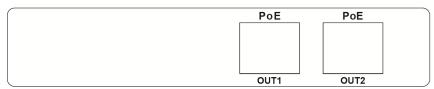
			Max.		Cest Result					eters			
	A	fter 100	M	PR10	0GB-1	A	fter 100	M	PR10	0GB-2			
Distance(m)	(V)	(A)	(W)	(VIN)	(VOUT)	(V)	(A)	(W)	(VIN)	(VOUT)			
500	48	1.45	69.6	47.7	56.3	51	1.03	53	50.8	56.5			
400	47	1.56	74	46.6	56.2	51	1.05	59	50.1	56.5			
300	47	1.62	78	46.1	56.2	50	1.2	61	49.8	56.5			
200	47	1.67	78	46.1	56.1								
	A	fter 100	M	PR10	0GB-3	A	fter 100	M	PR10	0GB-4	After 10	0M + Pc	wer Meter
Distance(m)	(V)	(A)	(W)	(VIN)	(VOUT)	(V)	(A)	(W)	(VIN)	(VOUT)	(V)	(A)	(W)
500	53	0.82	44	52.1	56.3	54	0.7	38	53	56.2	53	0.59	31.27
400	52	0.91	47	51.6	56.6						53	0.66	34.98
300											52	0.94	48.88
200											50	1.21	60.5

<sup>\*</sup>Above power output and PoE distance are measured by 1-port PoE output.

#### **Front Panel**

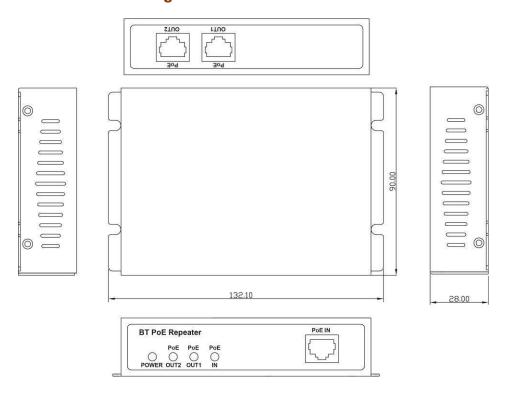
ВТ Ро	E Re	peater	
$\bigcirc$	PoE	PoE	PoE
OWER	OUT2	OUT1	IN

#### **Rear Panel**





### **Mechanical Drawing**



## **Mechanical Drawing-ODU**

