



Power over Ethernet Repeater

UPE5600-RT User Manual



UPE5600-RT is an Ethernet and Power-over-Ethernet(POE) Repeater providing a 100/100Mbps Ethernet transmission for 100m distance and extend Ethernet connectivity 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. UPE5600-RT 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 UPE5600-RT allows an IP camera to be located 200-300 meters away from a POE switch. The switch delivers POE power over the first 100 meters of Cat5 cable to the UPE5600-RT, and the UPE5600-RT restores the Ethernet signal and forwards remaining POE power to the camera. The UPE5600-RT requires no local power supply, and the UPE5600-RT presents no restriction to the camera network connection.

Advantages:

- Extends Ethernet cable installations for another 100 meters
- Forwards Power Over Ethernet (POE) to remote devices
- No power cable installation required
- Ethernet 100Mbps Wire Speed
- Fully Ethernet protocol transparent – no restrictions to network traffic

- Compatible with IEEE 802.3af POE standard
- Simple to install – Plug & Play

PoE Repeater Specifications:

LAN Interface:

- IEEE 802.3x, Auto-Detection for 10/100BaseT and full/half duplex
- Automatic MDIX function

POWER:

- IEEE 802.3af Compliant with voltage within 44-57Volt
- Maximum Power Dissipation: 2.5 Watts
- POE IN: IEEE 802.3af Class 0 (Max 12.95 Watts)
- POE OUT: IEEE 802.3af Class 1 or 2 (Max 6.49 Watts)

LED Indicators:

- **POWER:** Power is ON
- **IN:** Data Activity of LAN IN Port
- **OUT:** Data Activity of LAN OUT Port

Operating Environment:

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

Physical Dimension:

WxDxH: 120 x 90 x 28 (mm)

Application Diagram:



MAXIMUM RANGE				
PD device POE class	3 or 0	2	1	(None POE)
Device power up to:	12.95W	6.49W	3.84W	n/a
Range with General 15.4Watt PSE switch:	n/a	300m	400m	700m
Range with Hi-Power 30Watt PSE switch:	300m	500m	700m	1000m

Note: The distances are typical results when used with 24AWG Cat5, Cat5e or Cat6 cable.

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