



## UPE5602-RTO

### 2-Port Outdoor PoE Repeater

Delivering data and power over existing network cables



#### FEATURES

- Complies with IEEE802.af Power over Ethernet (PoE) standard for voltage within 44 ~ 57 volt
- Outdoor housing with IP66 industry standard for water resistance and dust-proof protection features
- Complies with IEEE802.3u 100Base-TX standard
- Complies with IEEE802.3 10Base-T standard
- 2 x RJ-45 Power Over Ethernet (PoE) PSE Ports
- Extends Ethernet cable installation for another 100m
- Forwards Power over Ethernet (PoE) to remote devices
- Supports NWay protocol for speed (10/100Mbps)
- Maximum Power Dissipation 2.5 Watts
- Supports auto MDI-X function for switch-to-station & switch-to-switch connection with non crossover cable
- Supports full and half duplex operation
- Operates at max. packet filtering and forwarding rate
- Store-and-Forward transmission method
- Desktop size and wall mountable design
- Plug-&-Play without any software configuration
- Transparent to all kind of network protocols
- No power is required

#### Package Contents

- One 2-port Outdoor (PoE) Repeater
- One User's Manual
- One Set of Mounting Kit

#### OVERVIEW

UPE5602-RTO is a 2-port Power over Ethernet (PoE) IP66 outdoor Repeater that providing a 10/100Mbps Ethernet transmission for 100 meters distance and extend Ethernet connectivity another 100 meters with Power over Ethernet capability. It forwards both Ethernet and PoE for another 100 meter (330ft) using an innovative power-processing scheme and multiple units can be deployed in series for even longer distance with no degradation in network speed or latency.

UPE5602-RTO is powered by an Ethernet PoE Switch (or PoE Injector) and requires no separate power connection in the middle of cable, making it extremely easy to connect. A simple application of UPE5602-RTO allows connect two PoE Devices (PDs) located 200m away from the PoE switch. The switch delivers PoE power over the first 100m of Cat. 5 cable to the UPE5602-RTO, and restores Ethernet signal and forwards remaining PoE power to the PDs 100m away. It requires no local power supply, and presents no restriction to the Ethernet network connection. With UPE5602-RT, PD may have its own dedicated connection to the switch. The power cable installation to remote switch would not be required.

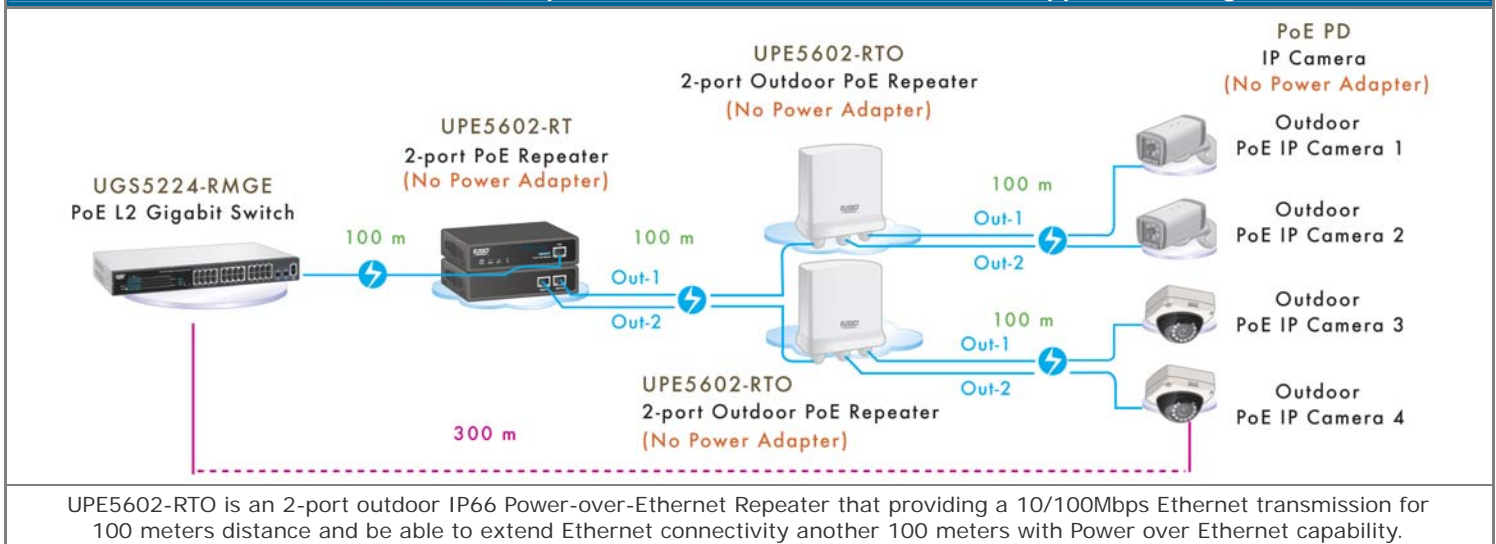
The advantage of PoE function is to provide power and data over existing network cables. It eliminates the need for electricians or extension cords while installing new expanding equipments. Therefore, UPE5602-RTO can save space, reduce cables and eliminate the requirement for the dedicated electrical outlets to lower the installation cost. This PoE technology is suitable for small business, school campus, bookstore, coffee shop with internet hot spot, or enterprise network environments.

## SPECIFICATIONS

System Specifications	
Ethernet Standard	IEEE802.3 10BASE-T IEEE802.3u 100BASE-TX IEEE802.3x Full duplex operation and flow control IEEE802.3af Power over Ethernet
Interface	1 x 10/100Mbps RJ-45 PoE Input port 2 x 10/100Mbps RJ-45 PoE Output ports
PoE Power	IEEE802.af compliant with voltage within 44 ~ 57 volt Maximum Power Dissipation: 2.5 Watts PoE IN : IEEE802.3af Class 0 (Max. 12.95 Watts) or Midspan High Power Method PoE OUT : IEEE802.3af Class 1 or 2 (Max. 6.49 Watts) or Midspan High Power Method
Uplink	Auto MDI/MDI-X ( Auto Crossover )
Network Speed	10/100Mbps Full/Half duplex mode auto detection
Diagnostic LED	Power 、 PoE IN 、 PoE OUT1 、 PoE OUT2 (on Board)
Cable Connection	10Mbps : UTP/STP Catalog 3 or Better, Max. 100 Meters 100Mbps : UTP/STP Catalog 5 or Better, Max. 100 Meters
Filtering / Forwarding Rate	10Mbps : 14,880pps/14,880pps 100Mbps : 148,800pps/148,800pps
Installation	Outdoor Mountable ( IP66 Standard )
Weight	500g (Net)
Operating Temperature	0° ~ 50°C
Operation Humidity	5% ~ 95% (non-condensing)
Dimension	180 (L) x 165 (W) x 95 (H) mm
Power Supply	No Power Adapter is required, Power is supplied from PoE Switch
Emission Certification	CE 、 FCC Rule Part 15 、 RoHS

## Application Diagram

### 2-Port PoE (Outdoor) Repeater for 300m Ethernet Connection Application Diagram



## ORDERING INFORMATION

Model	Description
UPE5602-RT	2-Port Power over Ethernet (PoE) Repeater (Indoor)
UPE5602-RTO	2-Port Power over Ethernet (PoE) Repeater (Outdoor, IP66)

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