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
- 1-port Ethernet Power Sourcing Equipment (PSE)
- Extends Ethernet cable installation for another 100m
- Forwards Power over Ethernet (PoE) to remote devices
- Supports NWay protocol for speed (10/100Mbps) and duplex mode (Half/Full) detection
- 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
- Plug-&-Play without any software configuration
- Transparent to all kind of network protocols
- No power is required

Package Contents

- One Outdoor PoE Repeater
- One User’s Manual
- One Set of Mounting Kit

OVERVIEW

UPE5600-RTO is a Power over Ethernet (PoE) 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.

UPE5600-RTO itself is powered by an Ethernet PoE Switch (or PoE Injector) and so requires no separate power connection in the middle of cable, making it extremely easy to connect. In the simplest application, a UPE5600-RTO 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 Cat. 5 cable to the UPE5600-RTO, and the UPE5600-RTO restores the Ethernet signal and forwards remaining PoE power to the camera. The UPE5600-RTO requires no local power supply, and the UPE5600-RTO presents no restriction to the camera network connection.

The advantage of PoE function of UPE5600-RTO 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, UPE5600-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.
**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**
- 2 x 10/100Mbps RJ-45 PoE ports (In & Out Ports)

**PoE Power**
- IEEE802.3af 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, LAN IN, LAN OUT

**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)

**Operating Temperature**
- 0°C ~ 50°C

**Operation Humidity**
- 5% ~ 95% (non-condensing)

**Dimension**
- 180 (L) x 165 (W) x 95 (H) mm

**Weight**
- 500g (Net)

**Power Supply**
- No Power Adapter is required, Power is supplied from PoE Switch

**Emission Certification**
- CE, FCC Rule Part 15, RoHS

---

**Application Diagram**

1-Port (outdoor) PoE Repeater for 300m Ethernet Connection Application Diagram

UPE5600-RTO is an IP66 waterproof outdoor Power-over-Ethernet Repeater that providing a 10/100Mbps Ethernet transmission for 100 meters distance and be able to extend Ethernet connectivity another 100 meters with Power over Ethernet capability.

---

**ORDERING INFORMATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPE5600-RT</td>
<td>1-Port Power over Ethernet (PoE) Repeater</td>
</tr>
<tr>
<td>UPE5600-RTO</td>
<td>1-Port Power over Ethernet (PoE) Repeater (Outdoor, IP66)</td>
</tr>
</tbody>
</table>

EUSSO Technologies, Inc. is a dedicated data communication and networking company. With professional experiences in design, production, marketing and service support, we deliver the full range networking products including Gigabit Ethernet, Fiber Optic, Wireless LAN, Switches, Hubs, LAN cards, PCMCIA adapters, Converter, Transceivers. As well as Internet Telephony Gateway, Print Servers, Internet Sharing Servers and many others.

2010/12/10 ver 1.0F