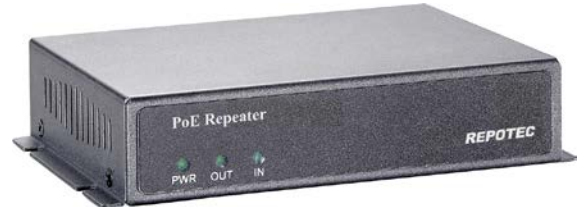## RP-PE011R

10/100M 802.3af PoE Repeater, Mid-Span

RP-PE011R is an Ethernet and Power-over-Ethernet 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. RP-PE100R 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 mid-span power sources.

In the simplest application, a RP-PE011R allows an IP camera to be located 200-600 meters away from a PoE switch or high power injector. The switch delivers PoE power over the first 100 meters of Cat5 cable to the RP-PE011R, and the RP-PE011R restores the Ethernet signal and forwards remaining PoE power to the camera. The RP-PE011R requires no local power supply, and the RP-PE011R presents no restriction to the camera network connection. Typically, the PoE switch would be confined to a centrally located equipment room, and would connect to several IP cameras distributed about the site. With RP-PE011R, each camera may have its own dedicated connection to the switch, and power cable installation to remote switches or cameras is not required.
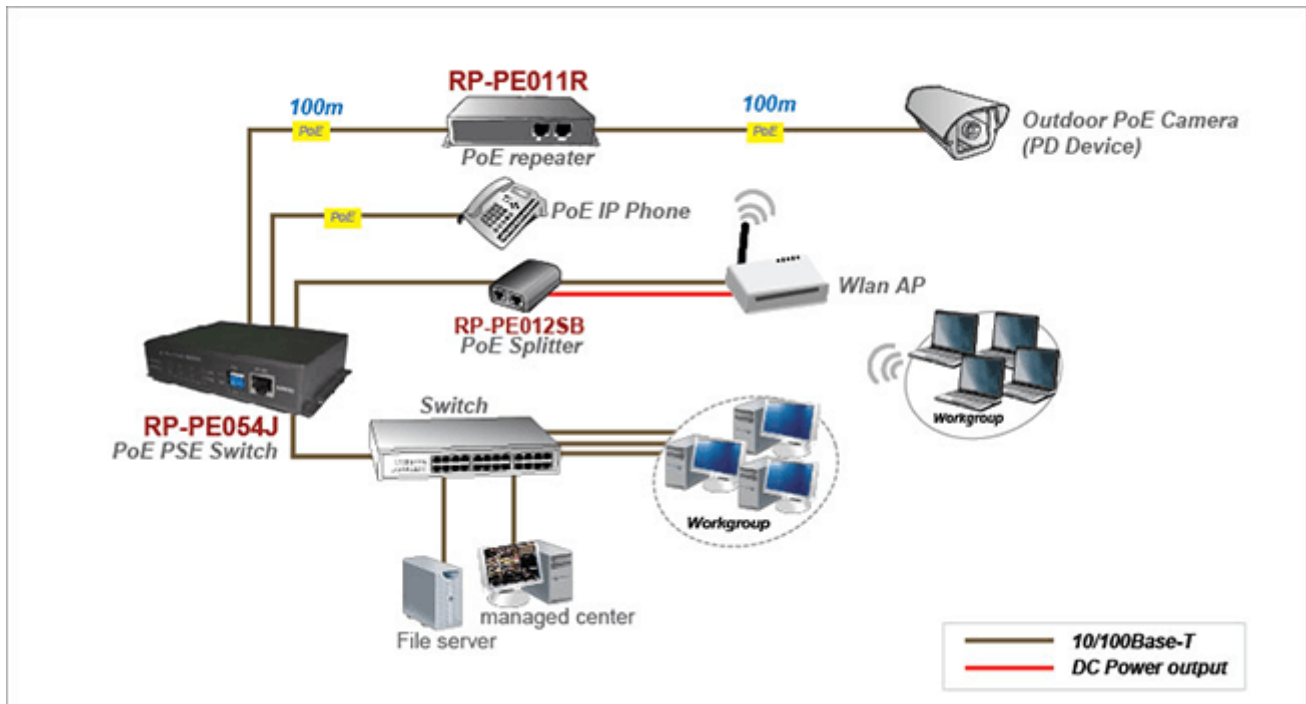
Features

- Extends Ethernet cable installations for another 100 meters
- Forwards Power Over Ethernet (PoE) to remote devices
- No power cable installation required
- Fully Ethernet protocol transparent – no restrictions to network traffic
- 100Mbps Ethernet Wire Speed
- Compatible with IEEE 802.3af PoE standard
- Simple to install – Plug & Play

Specifications

Standards	• IEEE 802.3 10Base-T Ethernet • IEEE 802.3u 10/100Base-TX Fast Ethernet • IEEE 802.3af Power over Ethernet / Mid-Span • IEEE 802.3x Flow Control
Interface	• LAN IN: 1 x 10/100Base-TX Ethernet with IEEE 802.3af PoE "Data + DC" in, Auto MDI/MDI-X, Auto-Negotiation RJ-45 connector • LAN OUT: 1 x 10/100Base-TX Ethernet with IEEE 802.3af PoE "Data + DC" out, Auto MDI/MDI-X, Auto-negotiation RJ-45 connector
Data Rate	• 10/100Mbps
Switch Architecture	• Store-and-Forward
Switch Throughput	• 14880pps@64Bytes
Flow Control	• Back pressure for Half-Duplex • IEEE 802.3x Pause Frame for Full-Duplex
Network Cable	• 4-Pair UTP Cat. 5 up to 100m (328ft) • EIA/TIA- 568 100-ohm STP (100m, 328ft)
PoE Specification	• IEEE 802.3af Power over Ethernet • PoE OUT: 48V DC, 270mA, Max. 13Watts • Power Pin Assignment: 4/5(+), 7/8(-) • PoE Power Supply Type: Mid-Span / Type B
PoE Maximum Distance	• Class 1 (3.8 Watts): 300m • Class 2 (6.5 Watts): 300m • Class 3 (12.9 Watts): 200m • Non-PoE (Data): 300m
Protection	• ESD(Ethernet): 6KV • Surge (EFT for power) : 6KV
LED Indicators	• PoE IN (Green) , LAN Data (Green), PoE OUT (Green)
Power Consumption	• Max. 2W (no device connected)
Power Requirement	• IEEE 802.3af compliant with voltage within 44V-56V DC
Mechanical	• Metal / Wall Mountable
Environment	• Operating temperature : 0°C to 55°C • Operating Humidity:5% to 95% (Non-Condensing)
Dimension	• 94 * 70 * 26mm
Certification	• FCC, CE

Application

Ordering information

RP-PE011R   10/100M 802.3af PoE Repeater (Mid-Span)