PoE Repeater over 2-wire (Master)

POT-0100

H/W Version: 1

The POT system, one master & one slave units, provide a long-reach Ethernet extension with remote Power-over-Ethernet (PoE) capability over a 2-wire line. Connection with a Class 0 PD device, the distance of two-wire 24AWG cables can be up to 400 meters when using a 48Watt high power PoE Switch, FSW-0513/0543. Users may select a fixed data rate for different copper line ranging. The maximum data rate can be up to 60 Mbps full duplex for 2-wire line.

The POT master unit is powered by the local PoE Ethernet network, and transmits both the data and power to the remote slave unit over 2-wire cable. The remote unit regenerates the power and provides the PoE capability to power up the remote PD device up to 15 watts when connecting to 48Watt High Power Switch, FSW-0513. The POT M/S supports the indoor & outdoor models with wall-mount feature.

Equipped with dip switches, the 2-wire line speed can be configured to meet different line gauges and distances. A POT pair offers a cost effective solution for remote power applications such as LAN-to-LAN connectivity, Video Streaming, FTTB, and MDU/MTU over single twisted line.

1. LED Indicator
2. Dip Switch
3. RJ-11 Out
4. RJ-45 In

Key Features

- Two-wire cables are used to connect 100Mbps Fast Ethernet PoE devices
- Maximum distance up to 500 meters for 24 AWG cable
- Maximum data rate up to 60Mbps full duplex
- Remote PoE capability for PD devices of WiFi AP, IP camera, IP telephones
- Up to 15 Watts for remote PoE, Depending on PSE power
- Easy installation by indoor & outdoor different models
- Dip Switches for 2-wire line rate settings
- Auto MDIX for 10/100 Base-Tx Ethernet LAN Ports
- Low-Latency for Video/Voice/Data applications

Works Well With

POI-4000
High-power PoE Injector

FSW-0513
4-Port High Power PoE Switch

Technical Specifications

Line Interface

Data Rate: 60/60 Mbps

Power: 48V

RJ-11 Connector x 1

LAN Interface

Auto-Detection for 10/100 Base-Tx and Half / Full duplex

Full compatible with IEEE 802.3 / IEEE802.3u

Automatic MDIX Function

RJ-45 Connector x 1

PSE

Output Voltage within 44~57V

Safety-Extra-Low-Voltage (SELV) Compliant

Maximum output power 15 Watts

LED Indicator:

Power: Green On- indicates power is on and normal

LAN: Green On- indicates Ethernet LAN port is in connection

Flashing- indicates Ethernet LAN data activates

Line: Green On- indicates 2-wire line is in connection

Flashing- indicates 2-wire line is in line handshaking

M/S: Green On-indicates as 2-wire Slave unit

Green Off- indicates as 2-wire Master unit

Physical Dimension (L x W x H):

120mm x 90mm x 28mm
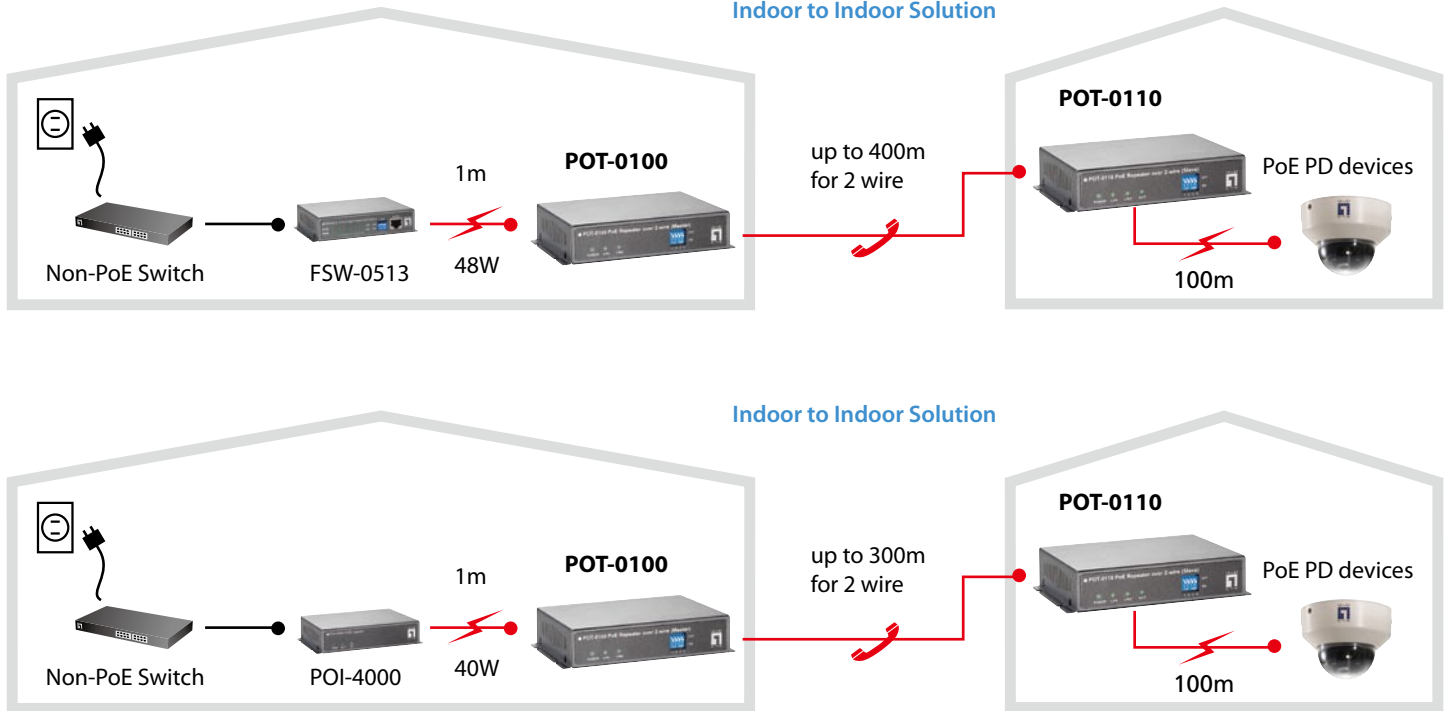
Operating Environment:

Humidity: 5% ~95% non-condensing

Temperature: 0~50°C

Regulatory Compliance:

FCC Rules Part 15

CE

Product Diagram

Ethernet Cable (RJ-45)

PoE (Power + Data)

RJ-11 Phone Line (Power + Data)

Indoor to Indoor Solution

Non-PoE Switch — FSW-0513 — 1m — 48W — **POT-0100** — up to 400m for 2 wire — **POT-0110** — PoE PD devices — 100m

Indoor to Indoor Solution

Non-PoE Switch — POI-4000 — 1m — 40W — **POT-0100** — up to 300m for 2 wire — **POT-0110** — PoE PD devices — 100m

Note: These distances are typical results when used with 24AWG RJ-11 Cable

Order Information   **POT-0100:** PoE Repeater over 2-wire (Master)

Package Contents   POT-0100 x 1, User Manual x 1