

EP2wire

Ethernet & PoE via 2-Wire RJ-11



Using the EP2wire system from YODA, an Ethernet network with PoE can be established up to 2000 ft(600 meters) over two-wire RJ-11 cables (e.g. telephone cable, bell wire). The existing two-wire analog telephone cable can be used to connect a 10/100 Mbps Ethernet device (for instance, PC, WLAN, IP camera, IP telephone or IP door phone). The data rate is up to 60 Mbps. For 2000 ft of bell wire, approx. 20 Mbps data is transferred. The EP2wire device is working in pair, one side is sender and other side is receiver.

The two EP2wire nodes are supplied via PoE from the network RJ45 cable that feeds in. The connected devices are supplied with up to 7 watts(connect to 15.4 W PSE, in compliant to IEEE 802.3af) or 20 watts(connect to 40W High Power PSE) via PoE. EP2wire is housed into compact metal case & IP-65 certified outdoor enclosure for selection. Both are wall-mounted.

Features:

- Two-wire cables are used to connect 10/100 Mbps Ethernet devices
- Ideal to connect e.g. a PC, WLAN, IP camera, IP telephone, IP door phone
- Data transfer distance up to 2000 ft; data rate is up to 60 Mbps(about 100 meters)
- Supplied with up to 7 or 20 watts via PoE, depending on PSE injector Power input
- Easy installation by plug and play
- Auto MDIX for 10/100 BaseT Ethernet LAN Ports
- IEEE 802.3af PSE Compliant for Class 0-3.
- 4 Dip Switches for Easy Configurations

Technical Specifications:

Line Interface:

- Data Rate: 60/60 ~ 20/20Mbps
- Power : 48V
- RJ-11 Connector x 1

LAN Interface:

- Auto-Detection for 10/100 BaseT and Half/Full duplex
- Fully compatible with IEEE802.3/IEEE802.3u
- Automatic MDIX Function
- RJ-45 Connector x 1

PSE:

- IEEE 802.3af Compliant with output voltage within 44 – 57Volt
- Safety-Extra-Low-Voltage (SELV) Compliant
- Maximum output power 7 or 20 Watts(high-power POE injector is required)

LED Indicators:

- **POWER:** Power is ON
- **LAN:** Data Activity of LAN Port
- **Line:** Loop Connection Status
- **M/S:** Master or Slave

Physical Dimension:

EP2wire-M/-S (metal case) : 120 x 90 x 28 (mm)

EP2wire-ODU(S) (IP-65 compliant housing) : 165 x 160 x 90 (mm)

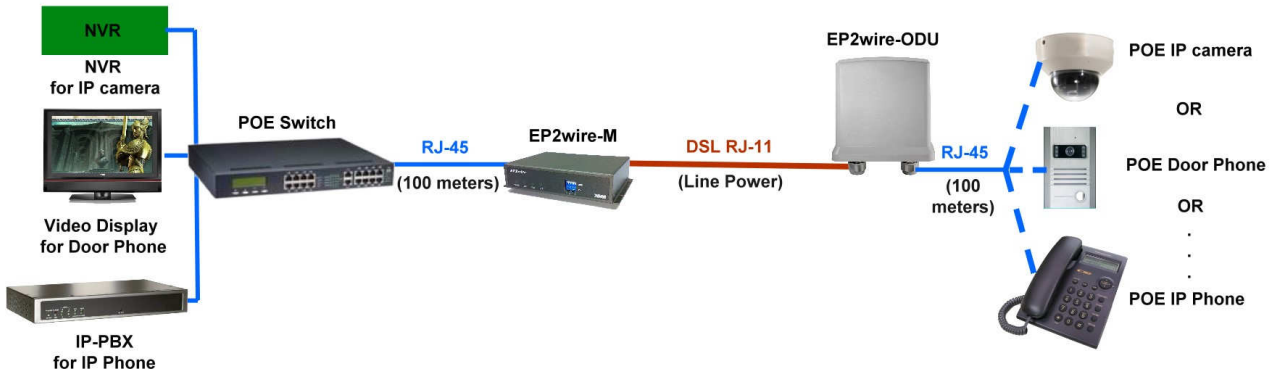
Operating Environment:

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

Regulatory Compliance:

- FCC Rules Part 15
- CE

Application Diagram:



※Performance table over 24AWG 2-wire Line (RJ-11)

POE Switch/Injector input PSE Power	Data Rate (Up/Down)	2-wire Line Distance	Max. output PSE Power
15.4W (IEEE 802.3af)	60/60 Mbps	300 ft	7 W
40~50W (High Power POE)	60/60 Mbps	300 ft	20+ W
	40/40 Mbps	1000 ft	15+ W
	20/20 Mbps	2000 ft	10+ W