

EP2coax Pair

PoE Repeater over Coaxial Wireline



Master



Slave

EP2coax connects Ethernet with remote PoE capability at a distance up to 3,000 ft with 5C2V coaxial cable when co-working with a 40Watt high power PoE injector.

EP2coax works in pair with one master and one slave (client) units. In addition, it is compliant to Safety-Extra-Low-Voltage (SELV) standard.

EP2coax pair consist of Master and Slave units.

Master	Type	Input Power by	Transmit Ether/PoE over
EP2coax-M	Compact Metal Box	PoE via Cat. 5	Coaxial cable

Slave (Client)	Type	Input Power by	Output via Cat.5 cable with
EP2coax-S	Compact Metal Box	Coaxial cable	Ethernet/PoE-PSE

*Metal box can be wall mounted

Features:

- Remote Line Power over coaxial cables
- Maximum 3,000 ft distance for 5C2V Coaxial cable
- Line rate up to 60 Mbps full duplex
- Dip Switches for line speed settings with Slave following Master
- Up to 7 or 20 watts via PoE, depending on power from Master
- IEEE 802.3af PSE Compliant for Class 0-3.
- Auto MDIX for 10/100 BaseT Ethernet LAN Ports
- Low-Latency for Video/Voice/Data applications

Technical Specifications:

LAN Interface:

- IEEE 802.3af Compatible PoE PD for Master, and PSE for Slave
- Auto-Detection for 10/100 BaseT and Half/Full duplex
- Fully compatible with IEEE802.3/IEEE802.3u
- Automatic MDIX Function
- Connector: RJ45

Line Interface:

- Line Rate: 60/60 ~ 10/10Mbps (full duplex)
- Rate Selection: Dip Switches with Slave following Master
- Safety Extra Low Voltage (SELV) Compliant (< 60V)
- Connector: BNC

Remote PSE:

- IEEE 802.3af Compliant with output voltage within 44 – 57Volt
- Power Auto Restart with Under Voltage Lockout (UVLO) Fault Detection
- Maximum output power 15.4 or 30 Watts depending on power from master

LED Indicators:

POWER: Power is ON

LINE: Coaxial Wire Connection Status

LAN: Data Activity of LAN Port

M/S: Master or Slave

Physical Dimension:

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EP2coax master or slave: 120 x 90 x 28 (mm)

Operating Environment:

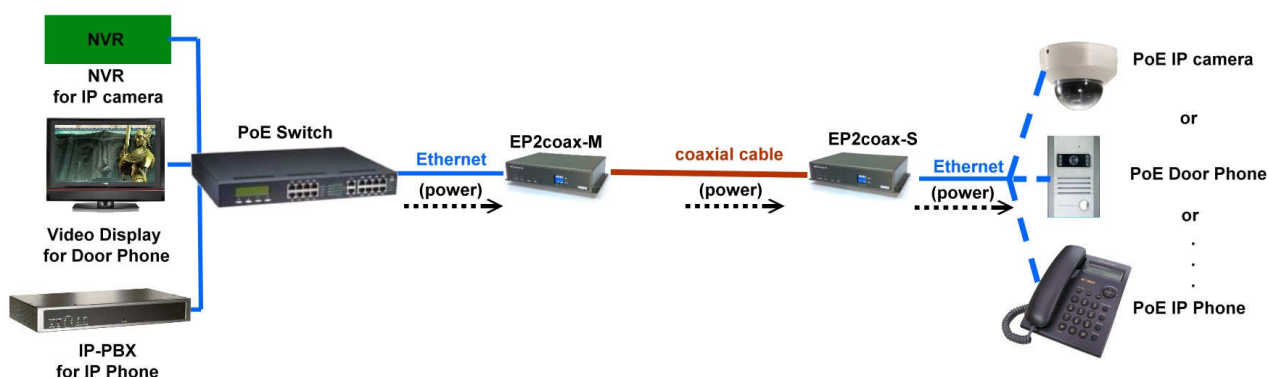
- Humidity: 5% to 95% non-condensing
- Temperature: 0 ~ 50 degree C

Regulatory Compliance:

- FCC Rules Part 15
- CE

Application Diagram:

<EP2coax-Master is fed by PoE Switch or Injector, no local power required>



※ Performance table over 5C2V Coaxial Cable (BNC)

POE Switch/Injector Input PSE Power	Data Rate (Up/Down)	5C2V Coaxial Distance	Max. output Power (PSE)
15.4W (IEEE 802.3af)	60/60 Mbps	1000 ft	7 W
40~50W (High Power POE)	60/60 Mbps	1000 ft	30+ W
	50/50 Mbps	3000 ft	15+ W
	20/20 Mbps	6000 ft	7 W