IP Over 2-Wire Extender

KEY
— Fiber Optic Cable
— Cat5/6 Copper Cable
— 2-Wire Cable

Fiber Ring

Fiber Ring
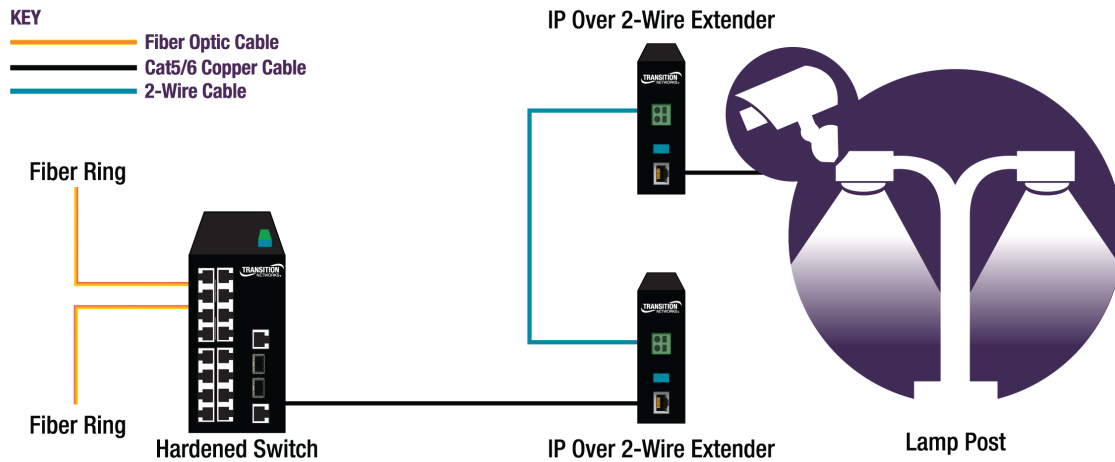
Hardened Switch

IP Over 2-Wire Extender

IP Over 2-Wire Extender

Lamp Post

Applications

- Surveillance cameras on light poles or traffic signal poles
- Extending network communications to a location where only 2-Wire cable is available

Features	Benefits
Utilizes 2-Wire Cable	• Eliminates the need to run new Cat5/6 Ethernet cable • Eliminates disturbing hazardous material in older buildings • Reduces implementation cost and time
Distances of 200 Meters	• Extends beyond the 100 meter Ethernet limitation
Extended Operating Temperature	• - 40°C to +70°C • Usable for indoor and outdoor environments
Metal IP30 Enclosure	• Usable in extreme environments • DIN Rail and wall mountable • Protects against intrusion of objects greater than 2.5mm
12 - 48 VDC Power Input	• Works with a variety of different power sources • External power supply minimizes device heat
User Selectable DIP Switch	• Allows user to configure each device as either master or slave unit within the pair

IPOTW1052-111-LRT

Unmanaged IP Over 2-Wire Ethernet Extender

(1) 100Base-TX RJ-45 Port + (1) 2-Wire Terminal Block

TRANSITION NETWORKS®

Transition Networks IP Over 2-Wire Ethernet Extender provides the ability to leverage existing 2-Wire cable infrastructure to extend the Ethernet network to remote locations, such as light poles or traffic signal poles. The extenders are a cost-effective alternative to running new Cat5/6 cable and reducing implementation time.

These extenders are used as a pair of devices, with a local and remote device at opposite ends of the 2-Wire cable. The local and remote devices can each accept a 100Base-TX RJ-45 connection. The local and remote devices can communicate over non-UTP 24AWG wire lengths of up to 200M. The wide input power range allows the extenders to work with a variety of power sources to suit specific applications.

Features

- Auto MDI/MDIX
- Full/Half-Duplex
- Store-and-Forward Processing
- Extend Ethernet distances up to 200m on 24AWG 2-Wire Cable
- IP30 Enclosure
- Single unit is user-selectable as Master or Slave
- 12~48 Power Input
- DIN Rail/Wall Mountable
- Eliminates cost of running CAT5/6 Cable

Specifications

Standards	IEEE 802.3p IEEE 802.3u IEEE 802.3x
Status LEDs	Power, RJ-45 Link, 2-Wire Link
Dimensions	Width: 0.9" [23 mm] Depth: 2.75" [70 mm] Height: 3.74" [95 mm]
Power Consumption	2 Watts
Power Input	12 - 48 VDC
Fault Relay	1A at 24 VDC capacity
Ingress Protection	IP30
Environment	Operating: -40°C to +70°C Storage: -40°C to 85°C Humidity: 5% to 95% (non-condensing) Altitude: 0 – 10,000 ft.
Weight	0.53 lbs. [0.24 kg]
Compliance	Safety: EN60950-1, FCC Part 15, CISPR22/EN55022 Class A, Immunity: EN61000-4-2, EN61000-4-3, EN-61000-4-4, EN61000- 4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Warranty	Lifetime