

**NEW**



Up to 1.2KM

## IEXT224-4PH IEXT204-4PH

Long Reach PoE Extenders  
(Phone line and Coaxial cable)



IEXT224-4PH & IEXT204-4PH series are intended to extend the reach of Ethernet Data and IEEE 802.3at Power over Ethernet beyond its natural limitations of 100 m for the network infrastructure. The solution works in pairs for point-to-point connectivity. The unit at the local site can transmit data and power over a single pair of telephone grade UTP wire or Coaxial cable up to 1,200 m. The unit at the remote side provides four 10/100Base-TX IEEE 802.3at PoE ports for total power budget of 30W that can receive power supply from the local unit when power is unavailable at the remote side.

These products are particularly designed for harsh environments, such as industrial networking, traffic surveillance, security automation applications, IP surveillance, city security, intelligent transportation systems (ITS) and are also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications.

### Features

- Long transmission data and power feeding distance up to 1200 meter
- Complies to IEEE 802.3at PoE
- Simultaneous transmission of Ethernet data and PoE Power over Phone line wire or coaxial cable
- Centralized management of power supply
- Eliminated the need for power supply at remote sites
- Easy cabling for quick installation
- Quick deployment and easy maintenance.
- Flexible and efficient power management
- Dip Switch to option the remote unit that can be powered by remote-side power or local power.
- Display data rate by LED
- Display real power loading by LED

### Specifications

Hardware Standard Interfaces	Standard	IEEE802.3 10Base-T
	IEEE802.3u	100Base-TX
	IEEE802.3af	PoE
	IEEE802.3af	PoE+
	ITU-T G.993.2	VDSL2

#### Power over Copper PoE Extender with 4x 10/100Base-TX IEEE 802.3at PoE Ports

<b>Network Connector</b>	Terminal Block for Copper Port BNC Female for Coaxial Port (IEXT204-4PH24) 4 x RJ-45 10/100Base-TX IEEE 802.3at PoE Port
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<b>Dip Switch</b>	SW 1: Selectable Asy (30a) or Sym(17a) (VDSL2 Profile) SW 2: Selectable target SNR margin 6dB or 9dB SW 3: Selectable Remote Power: ON: Feeding power by remote power (See Figure 1) OFF: Feeding power by local power (See Figure 2)
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Performance	Phone line distance vs Rate and Power																		
	<table border="1"> <thead> <tr> <th>Distance</th> <th>Line Rate</th> <th>Total PoE power (Watt) (Remote power mode)</th> </tr> </thead> <tbody> <tr> <td>300m</td> <td>100Mbps</td> <td>30W</td> </tr> <tr> <td>600m</td> <td>65Mbps</td> <td>15W</td> </tr> <tr> <td>700m</td> <td>50Mbps</td> <td>10W</td> </tr> <tr> <td>800m</td> <td>45Mbps</td> <td>7W</td> </tr> <tr> <td>1000m</td> <td>35Mbps</td> <td>5W</td> </tr> </tbody> </table>	Distance	Line Rate	Total PoE power (Watt) (Remote power mode)	300m	100Mbps	30W	600m	65Mbps	15W	700m	50Mbps	10W	800m	45Mbps	7W	1000m	35Mbps	5W
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	(Power over Copper, 24AWG copper wire)																		

<b>LED</b>	Active: System Status Local PWR: Local Power mode (See Figure 2) Remote PWR: Remote Power (See Figure 1)
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<b>LED</b>	PoE: PoE Port Status for per PoE Port PoE Output: 5/15/30 Watts (Display total PoE loading) (Remote power mode) Line Speed: Link/20/40/60/80/100 Mbps
<b>Standards Support</b>	VDSL2 ITU-T G.993.2 VDSL2 Profiles: 17a and 30a
<b>Protocol Support</b>	Transparent bridging to higher layer protocols
<b>Dimension</b>	106 x 62.5 x 135mm (D x W x H)
<b>Operating Environment</b>	Operating Temperature: -40°C to 75°C Storage Temperature: -40°C to 85°C Humidity: 10% - 95% (non-condensing)
<b>Physical/Electrical</b>	Hardened aluminum case, IP30 Dimensions: 62 x 135 x 106.5 mm Input Voltage: 40 to 60 VDC Power Consumption: 65 Watts maximum Installation: DIN-Rail, Panel Rack Mounting Over current protection Automatic short protection
<b>Warranty</b>	5 Years
<b>Certification</b>	
<b>EMS</b>	CE, FCC
<b>Railway Traffic</b>	EN50121-4
<b>Safety</b>	EN60950-1
<b>Shock</b>	IEC60068-2-27
<b>Freefall</b>	IEC60068-2-32
<b>Vibration</b>	IEC60068-2-6

## Application

Figure 1 : When Remote Power Active

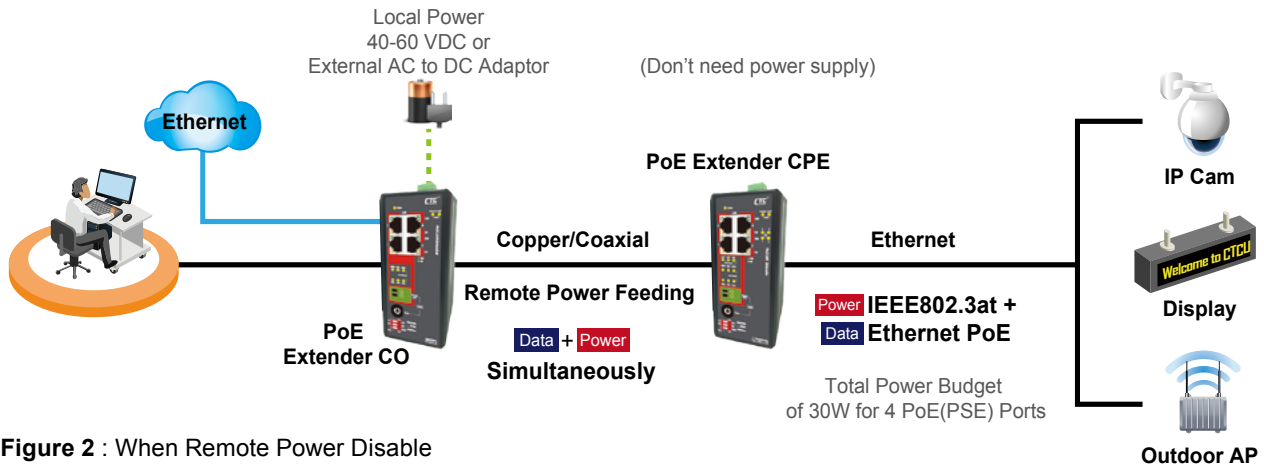
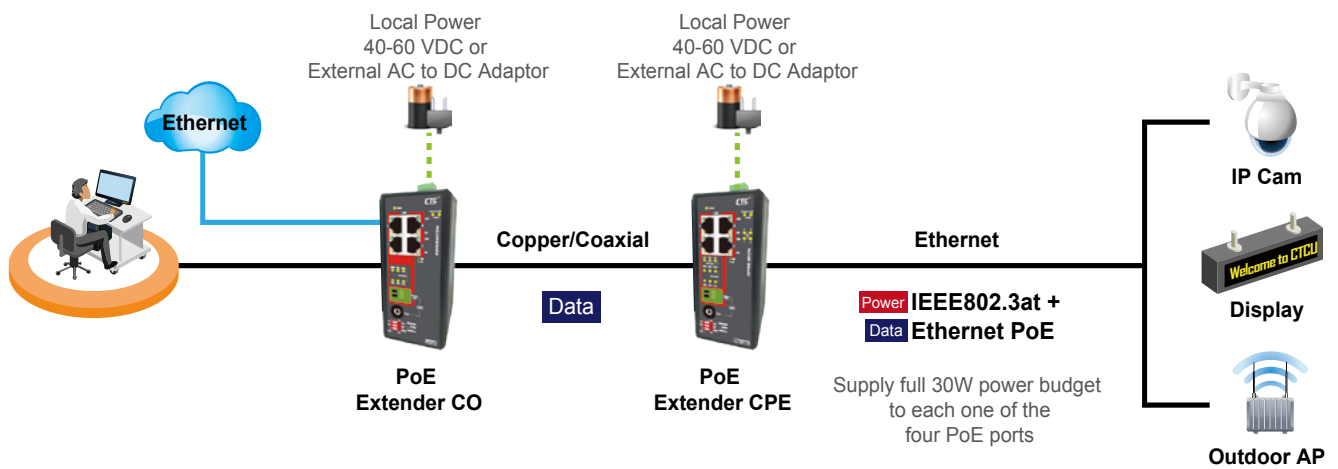
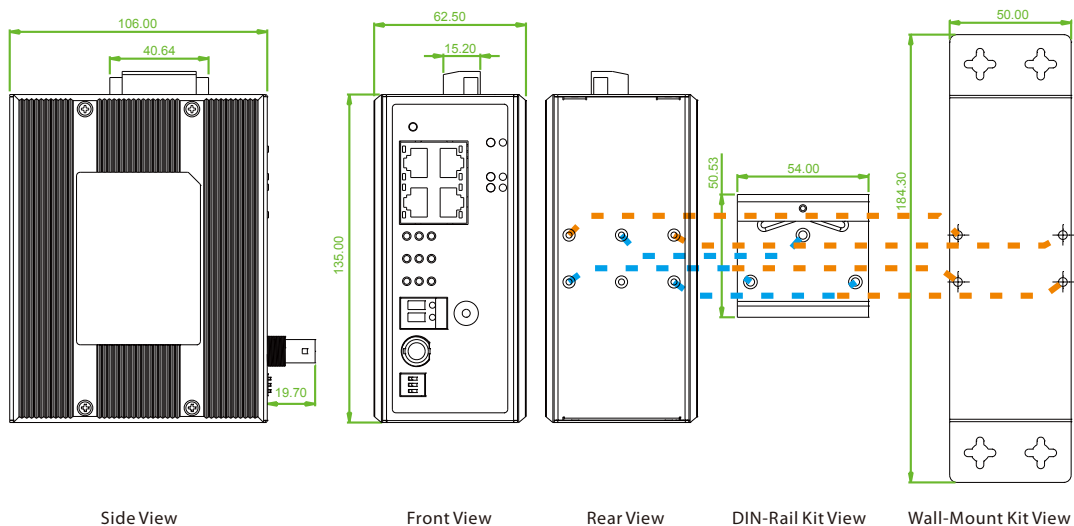


Figure 2 : When Remote Power Disable



## Dimensions



## Ordering Information

Model Name	Description
IEXT224-4PH	Industrial LAN Extender with 4 Ports PoE (1.2km, Phone line or Coaxial)
IEXT204-4PH	Industrial LAN Extender with 4 Ports PoE (1.2km, Phone line)