





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 meters. The solution works in pairs for point-to-point connectivity. The unit at the local site can transmit data and remote power feeding power over a single pair of telephone grade UTP wire or Coaxial cable up to 1,200 meters. The unit at the remote side provides four 10/100Base-TX IEEE 802.3at PoE ports for total power budget of 30W and can receive its power 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.

Feature

- Long transmission data and power feeding distance up to 1200 meter
- Complies with IEEEE 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	IEEE802.3	10Base-T			
Interfaces	IEEE802.3u	100Base-TX			
	IEEE802.3af	PoE			
	IEEE802.3af	PoE+			
	ITU-T G.993.2	VDSL2			
Power over Copper P PoE Ports	oE Extender w	ith 4x 10/100Base-TX IEEE 802.3at			
Network Connector	BNC Female for	k for Copper Port or Coaxial Port (IEXT204-4PH24) 00Base-TX IEEE 802.3at PoE Port			
Dip Switch	SW 1: Selectable Asy (30a) or Sym(17a) (VDSL2 Profile)				
	SW 2 : Selecta	SW 2 : Selectable target SNR margin 6dB or 9dB			
	SW 3 : Selectable Remote Power: OFF: Enable Feeding power by remote unit (Figur ON: Disable Feeding power by remote unit (Figur				
LED	Active: System	Status			
	Local PWR : Lo	ocal Power mode (See Figure 2)			
	Remote PWR:	Remote Power (See Figure 1)			
	PoE: PoE Port S	Status for per PoE Port			
	PoE Output: 5/15/30 Watts (Display total PoE loading) (Remote power mode)				
	Line Speed: L	ink/20/40/60/80/100 Mbps			
Standards Support	VDSL2 ITU-T G.993.2				
	VDSL2 Profiles	: 17a and 30a			
Protocol Support	Transparent b	ridging to higher layer protocols			
Operating Temperature	-40°C to 75°C				
Storage Temperature	-40°C to 85°C				
Humidity	10% - 95% (nor	n-condensing)			
Power Supply	Redundant dual 48VDC (44~57VDC) Input power (Removable Terminal Block)				
Power Consumption	65 Watts maxim	num			

Housing	Rugged Metal, IP30 Protection and fanless
Dimensions	106.5 x 62 x 135 mm (D x W x H)
Weight	IEXT-224-4PH:
	IEXT-224-4PH-L : 705g (local)
	IEXT-224-4PH-R: 715g (remote)
	IEXT-204-4PH:
	IEXT-204-4PH-L : 680g (local)
	IEXT-204-4PH-R: 700g (remote)
Installation Mounting	DIN Rail mounting, and Wall Mounting
MTBF	IEXT224-4PH : IEXT224-4PH-L - 253,543 Hours IEXT224-4PH-R - 233,606 Hours
	IEXT204-4PH : IEXT204-4PH-L - 253,740 Hours IEXT204-4PH-R - 233,668 Hours (MIL-HDBK-217)
Certification	
EMS	CE, FCC
Railway Traffic	EN50121-4
Safety	EN60950-1
Shock	IEC60068-2-27
Freefall	IEC60068-2-32
Vibration	IEC60068-2-6

Transmitting rate and PoE Power budget

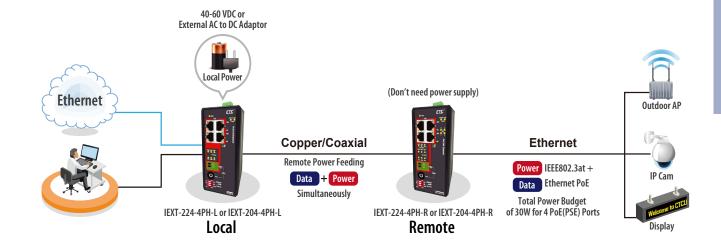
UTP - 24AWG Copper Wire

SNR	6	dB	6	DeF	
Profile	Asymmetrical		Symm	PoE Output	
Distance	Upstream Rate (Mbps)	Downstream Rate (Mbps)	Upstream Rate (Mbps)	Downstream Rate (Mbps)	Budget
300 m	65	100	100	100	30W
400 m	45	95	70	70	20W
600 m	30	65	45	45	15W
800 m	10	45	27	27	7W
1,000 m	6	35	18	18	5W
1,200 m	1	20	8	16	4W

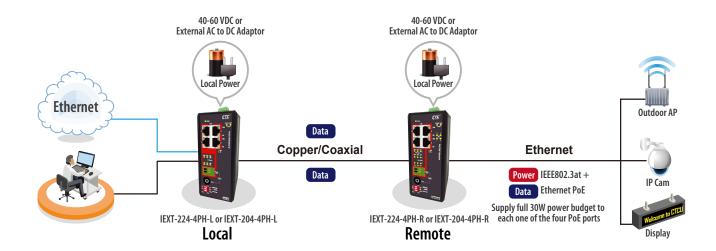
Coaxial Cable								
SNR 6dB			6	D - E				
Profile	Asymr	metrical	Symm	PoE Output				
Distance	Upstream Rate (Mbps)	Downstream Rate (Mbps)	Upstream Rate (Mbps)	Downstream Rate (Mbps)	Budget			
400 m	100	100	100	100	30W			
600 m	50	100	50	80	20W			
800 m	50	100	50	80	15W			
1,000 m	45	90	50	60	10W			
1,200 m	40	70	50	50	8W			
1,400 m	35	55	40	35	6W			
1,600 m	30	40	35	30	5W			
1,800 m	10	35	20	20	4W			
2,000 m	5	30	15	15				

Application

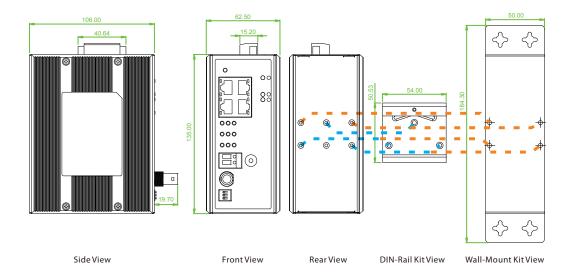
► Figure 1 : Remote Power feeding Enable



► Figure 2 : Remote Power feeding Disable



Dimensions



Ordering Information

Model Name	UTP	Long Distance		PoE Port	Certification			
	10/100	RJ11	Coaxial	IEEE802.3at	Railway EN50121-4	Safty EN60950-1	EN61000-6-2 EN61000-6-4	CE FCC
IEXT224-4PH	4	1	1	4		V		V
IEXT204-4PH	4	1		4	V	V		\/

Optional Accessories

■ Industrial Power Supply

DR-120-48 Industrial Power, Input 88 ~ 132VAC / 176 ~ 264VAC, Output 48 VDC, 120W, -10 ~ +60°C

Package List

- One pair device of the series (one local and one remote unit)
- Quickly installation guide
- Din Rail bracket with screws
- Wall mount bracket with screws
- Terminal block