



IEXT224-4PH

Long Reach PoE Extenders (Phone line and Coaxial cable)







IEXT224-4PH is 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.

Features

- 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 PoE Ports	r Copper Po	E Extender wi	th 4x 10/100Base-TX IEEE 802.3at			
Network C	onnector	Terminal Block for Copper Port BNC Female for Coaxial Port 4 x RJ-45 10/100Base-TX IEEE 802.3at PoE Port				
Dip Switch		SW 1: Selectable Asy (30a) or Sym(17a) (VDSL2 Profile)				
		SW 2 : Selectab	ole target SNR margin 6dB or 9dB			
		SW 3 · Selectable Remote Power				
		OFF: Enable Feeding power by remote unit (Figu ON: Disable Feeding power by remote unit (Figu				
LED		Active: System Status				
		Local PWR: Lo	ocal Power mode (See Figure 2)			
		Remote PWR: Remote Power (See Figure 1) PoE: PoE Port Status for per PoE Port PoE Output: 5/15/30 Watts (Display total PoE loading) (Remote power mode)				
		Line Speed: Li	nk/20/40/60/80/100 Mbps			
Standards						
		VDSL2 Profiles: 17a and 30a				
Protocol Su	upport	Transparent br	idging to higher layer protocols			
Operating Temperatu	re	-40°C to 75°C				
Storage Te	mperature	-40°C to 85°C				
Humidity		10% - 95% (non	-condensing)			
Power Sup	ply	Redundant dual 48VDC (44~57VDC) Input power (Removable Terminal Block)				
Power Con	sumption	65 Watts maximum				
Housing		Rugged Metal, IP30 Protection and fanless				

106.5 x 62 x 135 mm (D x W x H)

Weight	IEXT-224-4PH-L : 705g (local) IEXT-224-4PH-R : 715g (remote)		
Installation Mounting	DIN Rail mounting, and Wall Mounting		
MTBF	IEXT224-4PH : IEXT224-4PH-L - 253,543 Hours IEXT224-4PH-R - 233,606 Hours (MIL-HDBK-217)		
Certification			
EMS	CE, FCC		
Safety	EN60950-1		
Shock	IEC60068-2-27		
Freefall	IEC60068-2-32		
Vibration	IEC60068-2-6		
Transmitting rate an	d PoE Power budget		
UTP - 24AWG Coppe	r Wire		

SNR	6	dB	6	D - E				
Profile	Asymr	netrical	Symm	PoE Output				
Distance Upstrea Rate (Mb		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			

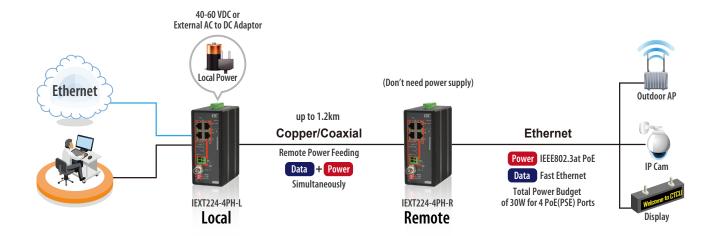
Coaxial Cable

SNR	6	dB	6	PoE	
Profile	Asymr	netrical	Symm	Output	
Distance	Upstream Rate (Mbps)	Downstream 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

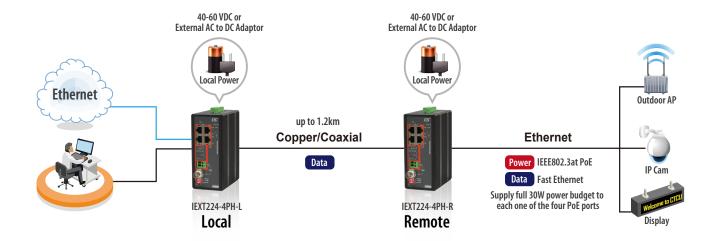
Dimensions

Application

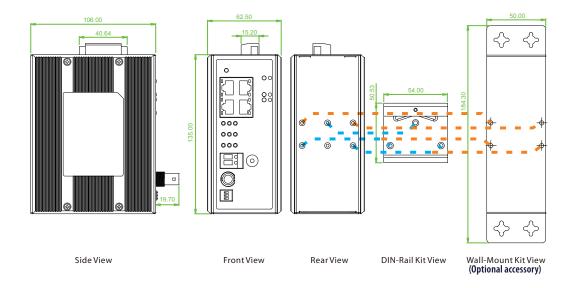
Figure 1 : Remote Power feeding Enable



► Figure 2 : Remote Power feeding Disable



Dimensions



Ordering Information

Model Name	UTP	Long Distance		PoE Port	Certififaction		
	10/100	RJ11	Coaxial	IEEE802.3at	Safty EN60950-1	CE	FCC
IEXT224-4PH	4	1	1	4	V	V	V

■ Package List

• One device of the series (one local • Din Rail with screws

and one remote unit)

• Wall mount bracket with screws

• Quickly installation guide • Terminal block

Optional Accessories

■ Industrial Power Supply

NDR-120-48 Industrial Power, Input 90 ~ 264VAC / 127 ~ 370VDC, Output 48 VDC, 120W, -20 ~ +70°C