IP67 Waterproof Industrial Gigabit PoE Extender (1 x Input 2 x Output)

Features

- IP67-rated aluminum case
- 10/100/1000Mbps Ethernet Ports
- All ports support IEEE 802.3af/at/bt standards
- 1 x Input, 2 x Output
- Enables 100-meter extension of Ethernet connectivity with PoE
- Wall-mountable design
- Wide operating temperature range: -40°C to 80°C
- No external power cable required for installation
- Plug-and-play functionality
- Supports 2K MAC address table for connecting more
- 10kB jumbo frame support in 1000Mbps full-duplex mode

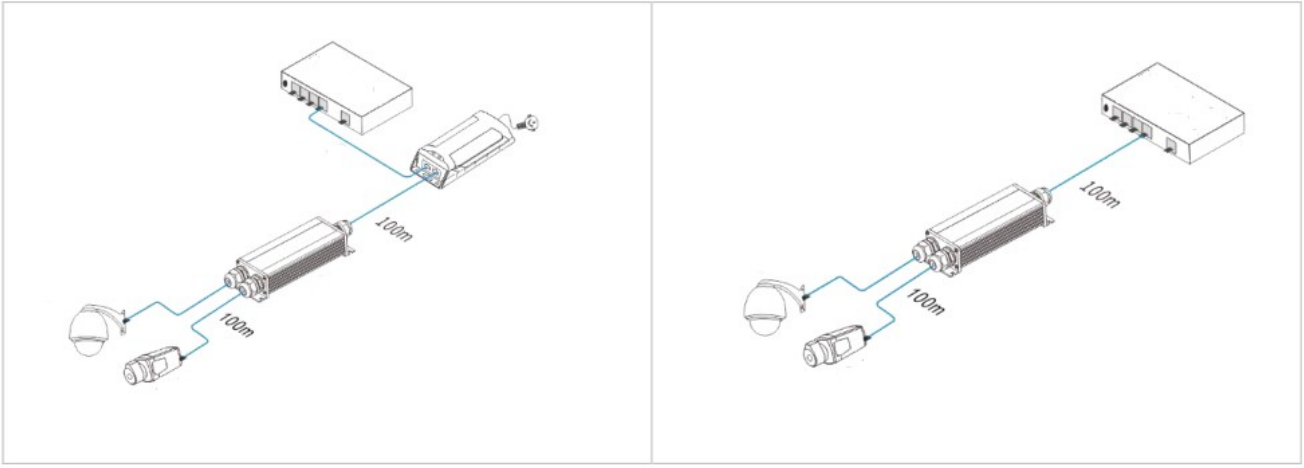


Overview

EX102BT-POE is an industrial-grade IP67-rated Gigabit PoE Extender (1-in 2-out, 90W) that utilizes Power over Ethernet technology. It extends 1000Mbps Ethernet signals up to 100 meters, significantly increasing transmission distance while providing standard PoE power supply of 50-57V to communication devices.

Featuring industrial-grade housing and waterproof terminal design with IP67 protection rating, this extender operates within a wide temperature range of -40°C to 80°C, ensuring reliable performance in harsh environments. It is ideally suited for security surveillance and network engineering applications.

Application



Technical Indexes

Ethernet Port	
PoE Input Port	1 x 10/100/1000Base-TX RJ-45, M25 x 1.5 Cable Glands
PoE Output Port	2 x 10/100/1000Base-TX RJ-45, M25 x 1.5 Cable Glands
Cascade Connection	Support 3 grade
Power over Ethernet	
PoE Standard	IEEE 802.3af/at/bt
PoE Power Supply Type	Mid-span and End-span
PoE Pin Assignment	1/2(+), 3/6(-), 4/5 (+), 7/8 (-)
Input Voltage	IEEE802.3 bt 90W
PoE Output Power	Maximum 65W
Single Port PoE Output	Maximum 60W
Switch Property	
Standards	IEEE 802.3 Ethernet, IEEE 802.3u Fast Ethernet, IEEE 802.3ab Gigabit Ethernet
Forwarding Modes	Store and Forward
Transmission Distance	Each extender extends by 100m, max 3 grade Cascade, total 400m.
MAC Table	2K
Switching Capacity	6Gbps
Packet Forwarding Rate	4.46Mpps
Flow Control	IEEE 802.3x pause frame for full duplex, Back pressure for half duplex
Jumbo Frame	10K bytes
Environment	
Surge Immunity	6KV, Standard: IEC
ESD Protection	6kV Contact Discharge; 8kV Air Standard: IEC 61000-4-2
Protection Level	IP 67
Explosion-Proof Rating	IK10
Operating Temperature	-40°C to 80°C (-40°F to 176°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Operating Humidity	0~95% (non-condensing)
Physical Parameter	
Dimensions (WxDxH)	195 x 75 x 46 mm
Weight	0.6 kg
Casing	Aluminum Case
Mounting Options	Wall-mount
Certifications	
Certifications	CE, FCC, RoHS

Ordering Information

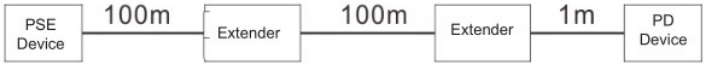
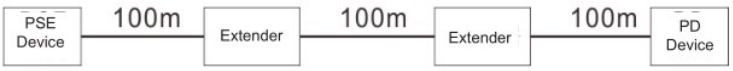
Model	Description
EX102BT-POE	IP67 Waterproof Industrial Gigabit PoE Extender 1 x Input 2 x Output
Mounting Options	Wall Mount Bracket is included.

3-Grade Cascading Diagram

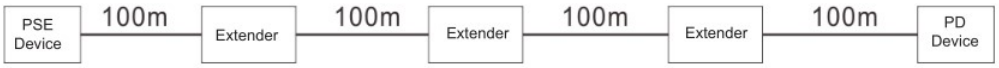
Single-Stage Cascading

PSE Device Output Power	90W	
Cable Type	Cat5e	Cat6
Single-Stage Cascading (101m)		
PD Device Input Power	60.5W	60.9W
Single-Stage Cascading (200m)		
PD Device Input Power	52W	53W

Two-Level Cascading

PSE Device Output Power	90W	
Cable Type	Cat5e	Cat6
Two-Level Cascading (201m)		
PD Device Input Power	48.2W	49.4W
Two-Level Cascading (300m)		
PD Device Input Power	37.5W	38.9W

Three-Level Cascading

PSE Device Output Power	90W	
Cable Type	Cat5e	Cat6
Three-Level Cascading (301m)		
PD Device Input Power	33.6W	34.8W
Three-Level Cascading (400m)		
PD Device Input Power	33.6W	24W