

RB-EXTGE-101HB



OVERVIEW

RB-EXTGE-101HB is an outdoor IP67 rated Gigabit Ethernet PoE extender. Device can be installed on an Ethernet 10/100/1000Base-Tx UTP circuit, drawing a minimal 2.2W of power to repeat the Ethernet signal over to the other Ethernet port and allowing all PoE remaining power budget to be sent on the extending port. RB-EXTGE-101HB is IEEE802.3bt compatible, being able to transfer up to 90W of PoE power on the extension leg. Device is useful in reaching PoE PD devices beyond the regular UTP reach. Being housed in an IP67 enclosure makes it easy to install in any environment.

FEATURES

- Aluminum die-cast housing with IP67 rating (waterproof)
- Recommended AWG23 wiring to support 802.3bt (90W) power throughput
- Compatible with IEEE802.3af/at/bt PoE standards
- Supports passive DC42-57V input, max. 100W
- Clear LED indicators for speed and available PoE
- Overcomes TP cabling limitations for both data reach and PoE power
- Gas discharge protection, supporting 8kV electrostatic protection and 6kV lightning protection

PRODUCT APPEARANCE

View with M25 insulating nut assemblies



View with waterproof covers removed



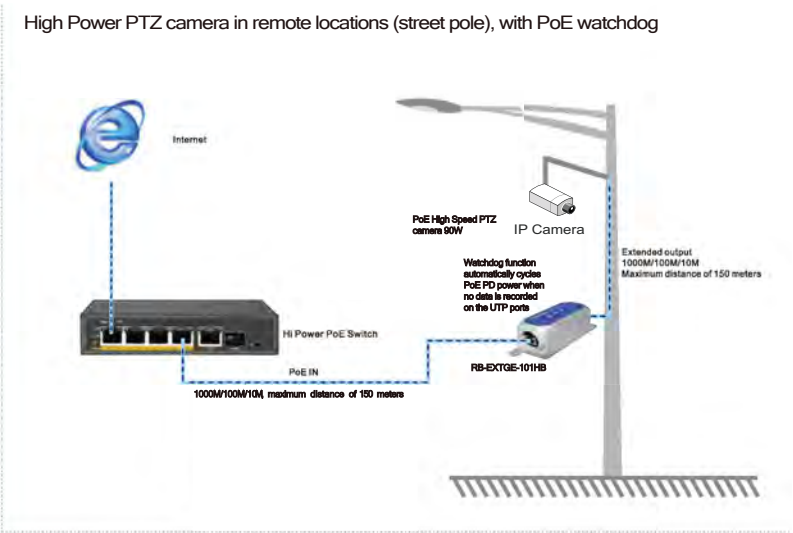
Industrial grade working temperatures: -40C~80C

Lightning Protection



Application

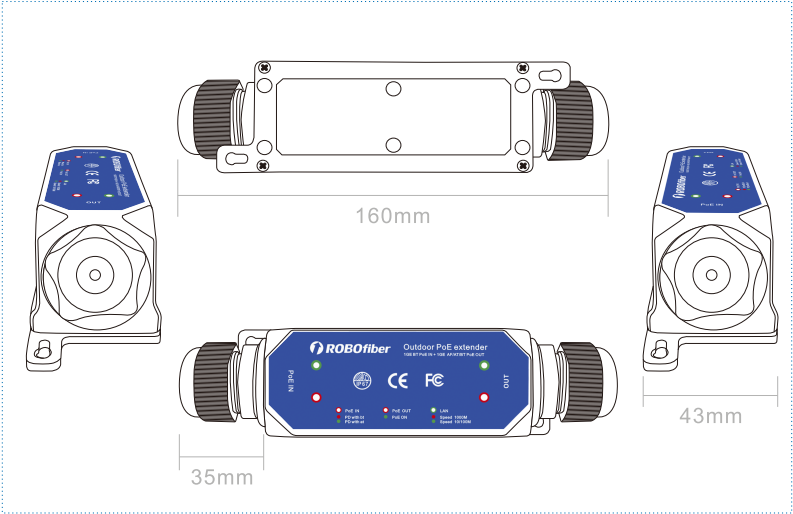
High Power PTZ camera in remote locations (street pole), with PoE watchdog



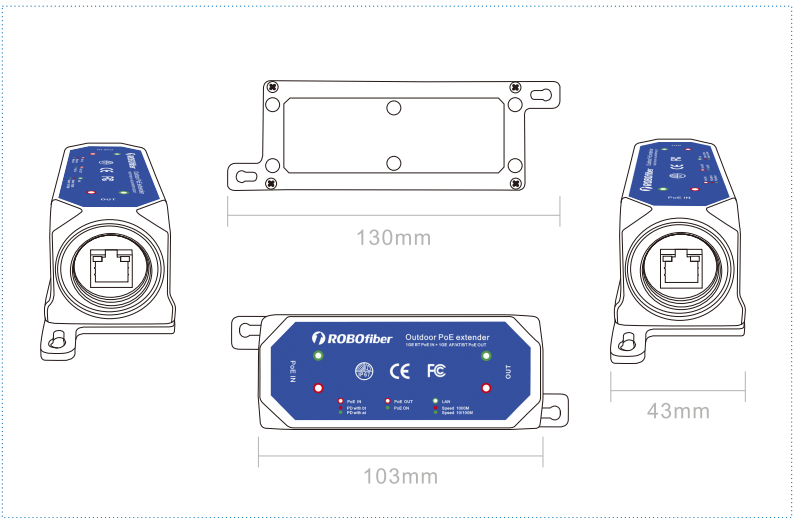
1GE PoE IN+1GE PoE OUT

Product diagram

Schematic diagram with waterproof cable sealing cover



Schematic diagram without waterproof cable sealing cover



Technical Specifications

Model	RB-EXTGE-101HB
Description	Gigabit IP67 outdoor waterproof extender
Material	Aluminum die-cast body with nylon waterproof gasket
Case Rating	IP67
Wire diameter	Support network cables with an AWG23 diameter
Ports	1*10/100/1000Base-TX in 1*10/100/1000Base-TX out
PoE IN	Supports IEEE802.3af/at/bt, max 100W PoE in Supports Passive DC37-57V in MAX 100W
PoE IN Pins	12+ 45+ 36- 78-
PoE OUT	Supports IEEE802.3af/at/bt, max 90W PoE out
PoE OUT Pins	12+ 45+ 36- 78-
PoE Watchdog	PoE auto detection and fault device reset(only when PoE PD is active)
Bandwidth	4Gbps
Packet Forwarding	2.88Mpps
MAC	2K
Buffer	2.5M
POE IN Transmission Distance	10BASE-T: Cat3,4,5 UTP(=250 meter) 100BASE-TX: Cat5 or later UTP(150 meter) 1000BASE-TX: Cat6 or later UTP(100 meter)
POE OUT Transmission Distance	10BASE-T: Cat3,4,5 UTP(=250 meter) 100BASE-TX: Cat5 or later UTP(150 meter) 1000BASE-TX: Cat6 or later UTP(100 meter)
LED Indicators	PoE in: LED with bt or af/at PoE out: on LED Port: LAN link on LED, LAN SPEED 1G LED PoE dog: on led(inbox)
Operating Temperature /Humidity	-40~+80 °C; 5%~90% RH Non condensation
Storage Temperature /Humidity	-40~ +90 °C; 5% ~95% RH Non condensation
Product /Packing size (L*W*H)	160mm x 43mm x 43mm 170mm x 49mm x 48mm
N.W/G.W (kg)	0.19kg/0.22kg
Installation	Desktop/wall installation
Lightning Protection Level	8KV-ESD 6KV-Lightning IP67
Certificate	CE-EMC EN55032;CE-LVD EN62368; FCC Part 15 Class B;RoHS;
Warranty	1 year