



4Ports Fast Outdoor Waterproof Extender



Product Introduction

hasivo's innovative product, IP67 4-way 100M waterproof extender, easily achieves 10/100M network PoE expansion, remote network transmission, video monitoring, and network sharing. Easy to manage and maintain, meeting the networking needs of users for network devices in complex outdoor environments. Suitable for network access, aggregation, and core in various harsh indoor and outdoor application scenarios such as companies, campuses, hotels, enterprise parks, and large factories.

Product characteristics

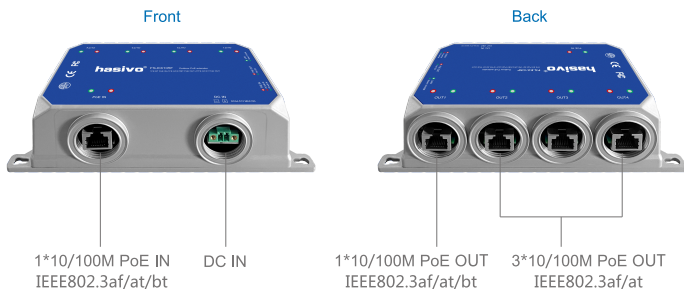
- ◆ Using aluminum alloy die cast body and nylon to break the limitations of application environment, with a waterproof level of up to IP67
- ◆ Φ of 4-8mm network cable
- ◆ Supports 1*10/100M bt POE in, 1*10/100M bt POE out(max 90W)+3*10/100M at POE out
- ◆ Support passive DC37-57Vin MAX120W
- ◆ Multi functional indicator light, easy to operate, providing a clear understanding of the device's operating status
- ◆ Breaking through the limitations of indoor and outdoor application environments, easily extending the PoE transmission distance
- ◆ 8KV air discharge, 8KV ESD electrostatic protection, 6KV lightning protection
- ◆ Stable extension of transmission distance without slowing down
- ◆ High quality design effectively ensures the stability and reliability of equipment operation

Product display and description

Schematic diagram with waterproof cable sealing cover



Schematic diagram without waterproof cable sealing cover



▲ Applied to complex and harsh working environments

Industrial grade working temperature: -40℃~80℃



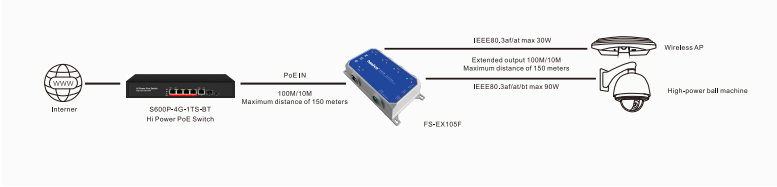
▲ Lightning protection and anti-static measures

Thunderstorm weather equipment **will** not be affected either



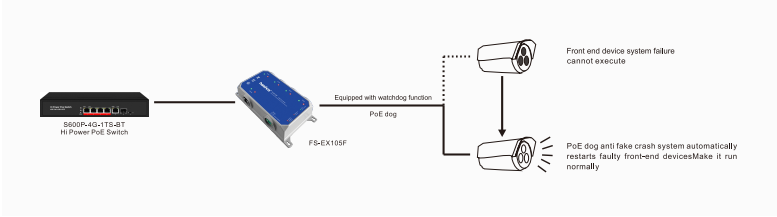
▲ **Supports the highest industry standard IEEE802.3af/at/bt , with an output power of up to 90W**

Under IEEE802.3bt, the output power of the extender can reach up to 90W, which has significant advantages in large ball machines and high-power APs

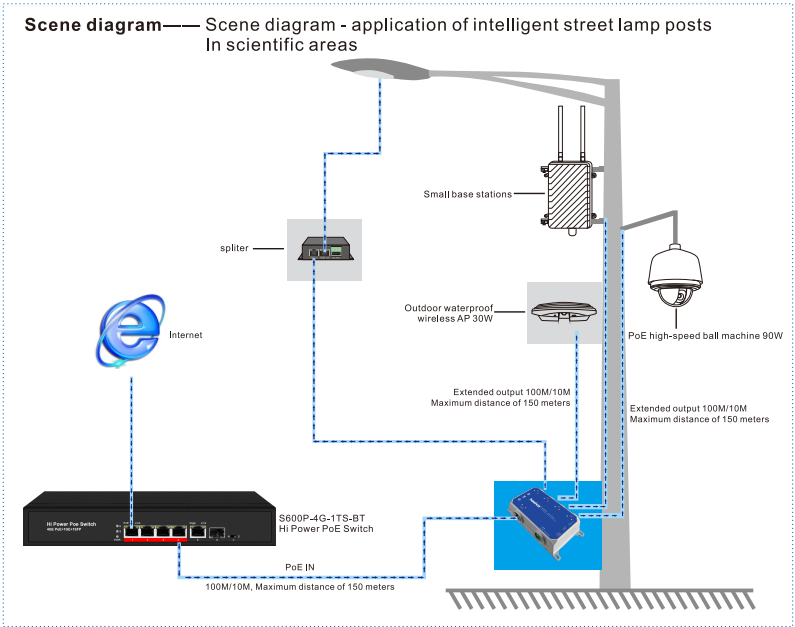


▲ **Advanced PoE watchdog function**

PoE dog: System integration anti fake crash system, In case of unexpected situations such as resource depletion or system task suspension of the current device system, the system will automatically restart to ensure reliable network operation



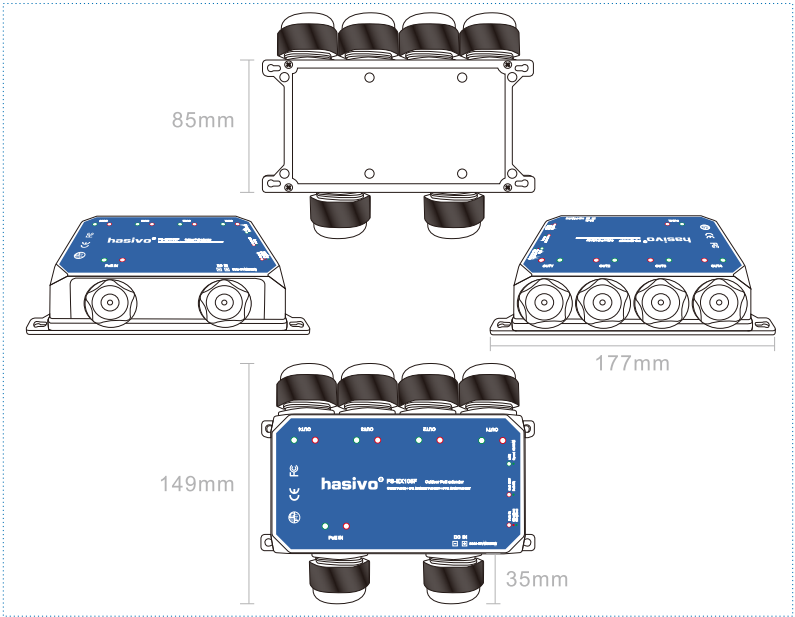
Product Connection Diagram



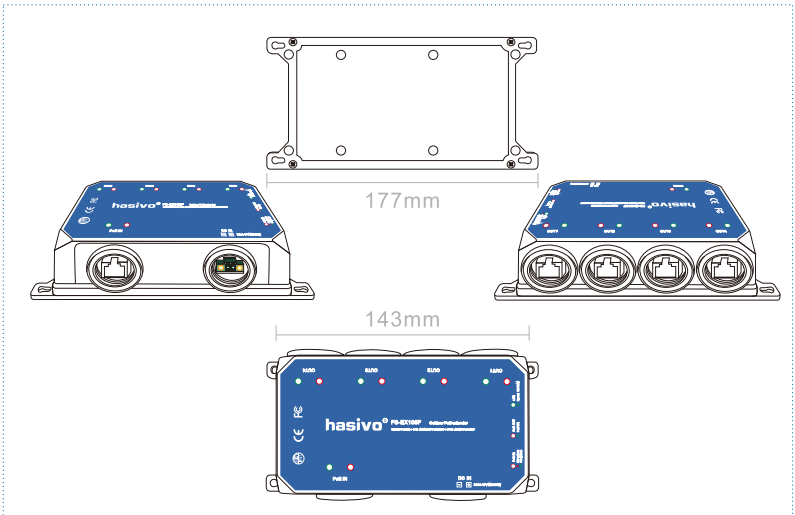
FS-EX105F

Product diagram

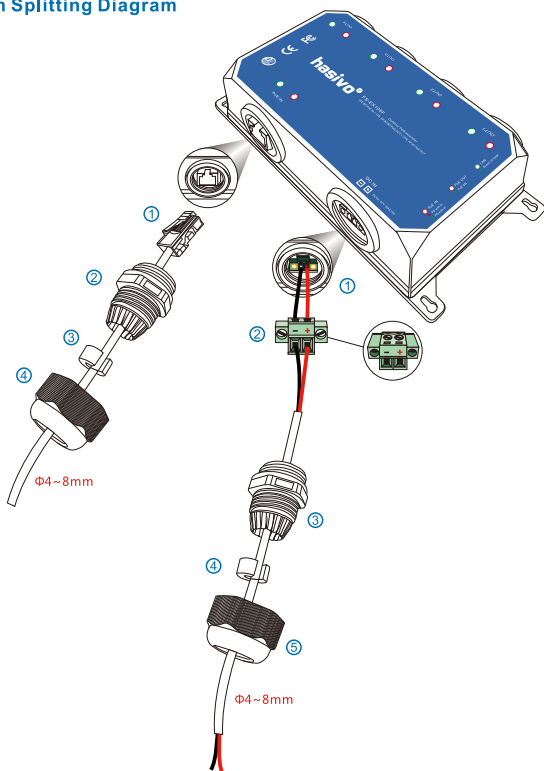
Schematic diagram with waterproof cable sealing cover



Schematic diagram without waterproof cable sealing cover



Connection Splitting Diagram



Connection Diagram



Hardware parameters

Model	FS-EX105F
Product name	Fast IP67 outdoor waterproof extender
Material	Aluminum die-casting body Nylon waterproof joint
Waterproof grade	Ip67
Wire diameter	Support network cables with a Φ of 4-8mm
Fixed Port	1*10/100Base-TX in 4*10/100Base-TX out
PoE in	Supports IEEE802.3af/at/bt, max 120W PoE in Supports Passive DC37-57V in MAX 120W
PoE in Pin	12+ 45+ 36- 78-
PoE OUT	OUT1 Supports IEEE802.3af/at/bt, max 90W PoE out OUT2-4 Supports IEEE802.3af/at, max 30W PoE out
PoE OUT Pin	Bt:12+ 45+ 36- 78- Af/at: 12+ 36-
PoE Dog	PoE auto execution、detection and resets fault device,when PoE is on
Bandwidth	1Gbps
Packet Forwarding	0.85Mpps
MAC	1K
Buffer	768K
POE inTransmission Distance	10BASE-T : Cat3,4,5 UTP(=250 meter) 100BASE-TX : Cat5 or later UTP(150 meter)
POE outTransmission Distance	10BASE-T : Cat3,4,5 UTP(=250 meter) 100BASE-TX : Cat5 or later UTP(150 meter)
LED Indicator	PoE in: LED witch bt or af/at POE out: on LED Port: LAN link onLED、LAN SPEED 1G LED PoEdog: on led(inbox)
Operating Temperature /Humidity	-40 ~ +80°C ; 5% ~ 90% RH Non coagulation
Storage Temperature /Humidity	-40 ~ +90°C ; 5% ~ 95% RH Non coagulation
Product /Packing size (L*W*H)	177mm*145mm*43mm 190mm*150mm*47mm
N.W/G.W (kg)	0.49kg/0.57kg
Installation	Desktop/wall installation
Lightning Protection level	8KV-AIR 8KV-ESD 6KV-Lightning IP30
Certificate	CE-EMC EN55032;CE-LVD EN62368; FCC Part 15 Class B;RoHS;
Warranty	Whole device for 1 year(Accessories not included)

Attention

To avoid equipment damage and personal injury caused by improper use, please follow the precautions as below:

!During the installation process, the power should be maintained in a power-off state.

!The switch can only work normally under the correct power supply. Please confirm that the power supply voltage is consistent with the voltage marked by the switch.

!Before switch on, please make sure that it will not cause overload of the power circuit, so as not to affect the normal operation of the switch or even unnecessary damage.

!In order to avoid the danger of electric shock, do not open the shell up when the switch works, even in the case of no live current, do not open.

!Don't place other heavy objects on the surface of the switch to avoid accidents.