NSGate

Outdoor rated PoE Extenders

NRP-191PRi | NRP-192PRi

> 802.3bt PoE > Waterproof RJ45 connectors > Weatherproof Housing

Overview

PoE Extenders are devised to extend connection distances from PSE to PD another 100 m via Cat5e or Cat6 cable. The transmission is carried out at a distance of 200 to 300 meters or more by cascading these extenders to a daisy chain. Device doesn't need any additional power supply because it uses a transit PoE from the input cable while its power consumption does not exceed 3W. Extenders work with any PSE or PD devices.The advantages of NRP-191PRi | NRP-192PRi :

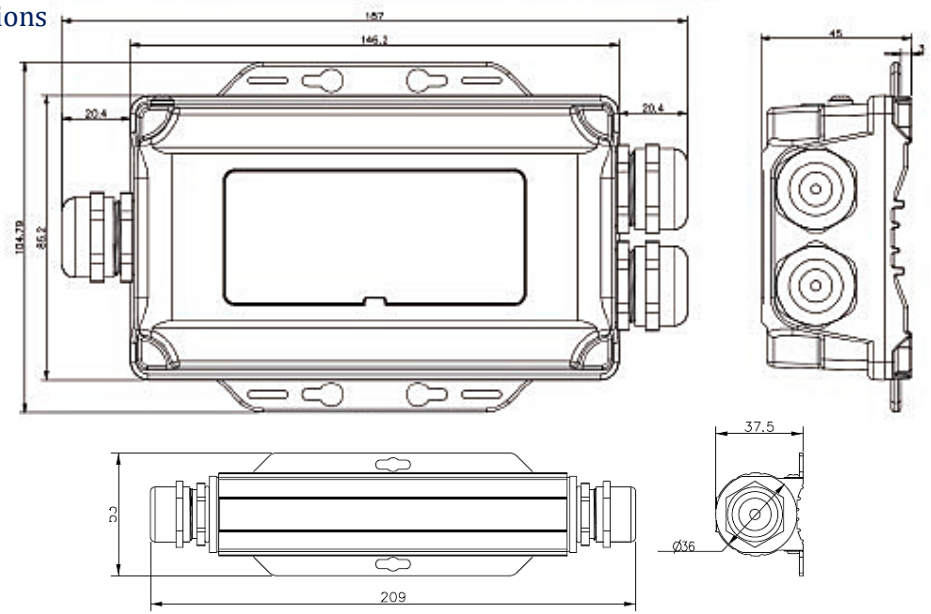
· Compliant with IEEE 802.3af/at/bt PoE;
· Support for Gigabit Ethernet 10/100/1000-BaseT;
· Rugged weatherproof housing with waterproof RJ45 conn.

The devices are easy to install and operate in Plug & Play mode. The housing has two/three waterproof RJ45 connectors for one input port and one/two output ports. The input port is connected to PSE equipment (PoE Injector or PoE Switch) and the output ports to PD equipment (IP Cameras or Wireless AP) or next extender. PoE Extenders NRP-191PRi|NRP-192PRi are designed for outdoor installation with an ambient temperature of-40~65°C.The units have a rugged weatherproof housing rated to IP67 with the glands for cables.

Key Features

Compliant with IEEE 802.3af/at/bt PoE
NRP-191PRi: 1 PD IN up to 95W + 1 PSE OUT 72W
NRP-192PRi: 1 PD IN up to 95W + 2 PSE OUT 45W, total 90W
Housing IP67/IK10, wall mounting, waterproof RJ45 connectors
Dimensions NRP-191PRi: 209x53x38mm, Weight: 0.41kg
Dimensions NRP-192PRi: 187x105x45mm, Weight: 0.57kg

Dimensions



Technical Data

Standards Compliance	IEEE 802.3 /u /ab /bt /at /af
Interfaces	NRP-191PRi: 2 x 10/100/1000 BASE-T ports (auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection)
	NRP-192PRi: 3 x 10/100/1000 BASE-T ports (auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection)
Data Transfer Rate	Ethernet: 10 Mbps (half duplex), 20 Mbps (full duplex)
	Fast Ethernet: 100 Mbps (half duplex), 200 Mbps (full duplex)
	Gigabit: 1000 Mbps (half duplex), 2000 Mbps (full duplex)
Power	Input (PoE): 44-57VDC (up to 60VDC)
	Grounding point
PoE	PoE In: PD IN 44-57VDC (up to 60VDC) 802.3bt PoE (up to 95W)
	PoE Out NRP-191PRi: PSE OUT 44-57VDC 802.3af/at/bt up to 72W
	PoE Out NRP-192PRi: PSE OUT 44-57VDC 802.3af/at/bt up to 45W, total 90W
	PoE Pin Out: 1/2(+); 3/6(-) Mode A EndSpan; 4/5(+), 7/8(-) Mode B MidSpan
Housing	IP67 Protection, Wall mounting
Operating Temperature	- 40 to 65 °C
Storage Temperature	- 40 to 85 °C
Dimensions	NRP-191PRi: 209x53x38mm
	NRP-192PRi: 187x105x45mm
Weight	NRP-191PRi: 0.41kg
	NRP-192PRi: 0.57kg
Protection	Surge: 6KV, standard: IEC61000-4-5
	ESD: Level 4, standard: IEC61000-4-2
	EFT Level 4 standard: IEC61000-4-4
	IEC61000-4-2(ESD) ± 6kV(contact), ±8kV(air)
	IEC61000-4-3(RS) 10V/m(80MHz~2GHz)
	IEC61000-4-4(EFT) Power Port: ±2kV; Data Port:±1kV
	IEC61000-4-5(Surge) Power Port:±1kV/DM, ±2kV/CM
	IEC61000-4-6(CS) 10V(150kHz~80MHz)

Ordering Information

NRP-191PRi	Outdoor Extender: 2 Ethernet 10/100/1000T + 802.3af/at/bt PoE, 1 PD/ 1 PSE, -40~65°C
NRP-192PRi	Outdoor Extender: 3 Ethernet 10/100/1000T + 802.3af/at/bt PoE, 1 PD/ 2 PSE, -40~65°C

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Installation Data

1. NRP-191PRi | NRP-192PRi is an outdoor PoE Extender to expand existing network distance one more 100 meters(328ft). Proper installation will achieve maximum protection capability and ensure that networks and equipment connected to it are reliable and sustainable.
2. The device can be mounted on a surface or on a wall using screws since it has two mounting holes (screws are not included). It also can be pole mounted using ties(Ties are not included as well).
3. Devices are Plug and Play, so no setup and local power is needed.
4. If PoE injector or PoE Switch is used, the PoE Extender must be connected after it since power and signal from PoE injector or PoE switch runs through the PoE Extender to remote device. This models can bear 95W(Max) power from PoE Injector or PoE Switch.
5. PoE In port should always be connected to a PSE device (PoE Injector or PoE Switch) which you want to get signal and power. PSE up to 95W and 44-57VDC power supply can be used. Due to the power loss involved 55-56V is suggested. PoE Out port should always be connected to your terminal device which you want it to get signal and power from the PoE Extender. It can be an IP Camera or Wireless Access Point (should be compliant with 802.3af/at/bt standard, cannot power up non-802.3 standard devices).

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6. The PoE Extender should be connected to a ground to avoid lightning surge damage. 16AWG Ground lug wire (0.5 meters) is included in the package. The ground wire must be connected to a separate ground.

7. RJ45 Port Net cable installation
   The metal connector is equipped with waterproof suit as it is shown on the picture below. We recommend a Cat5e/Cat6 or even better rated cable for the power transfer.
   First, put network cable through the waterproof suit, then crimp RJ45 connector, finally tighten them to the device RJ45 socket. Please note that Network cable with machine-climped RJ45 connector cannot be used with the waterproof suit.