PoE12-3PD

802.3bt Outdoor PoE Extender

The PoE12-3PD is a Gigabit PoE Extender designed for point to multipoint PoE applications, which effortlessly extend the range of power and data connectivity when your devices are located at a distance that far away from power source or connection to a PoE Switch. It features four RJ-45 Gigabit Ethernet ports, offering one (1) PoE++ PoE input port with up to 60W power input and three PoE output to your devices. Instead of connecting to an AC adapter, connecting via a PoE switch enables better visibility for network management to cover the edge of your network. It features three PoE+ ports to power a variety of PoE devices, including IP cameras, VoIP handsets, IoT device, Sensors, PoE switches and wireless access points. PoE12-3PD is good for residential and commercial network environment.

Benefits

Flexible PoE connection for versatile devices

The PoE12-3PD utilizes four Gigabit RJ-45 ports with PoE, offering both data and power over the same Ethernet cable. The IEEE 802.3bt input port supports up to 60W for the PoE extender, while the 802.3at PoE+ output ports (Port 1-3) deliver up to 30W per port to your devices. It extends the PoE connection beyond the standard maximum distance of 100 meters, reaching even to the edge of your network. This device efficiently expands network capability for office, smart home, or industrial environments.

PoE+

PoE++

Built-in with one Gigabit IEEE802.3bt PoE++ (60W) input port and three Gigabit IEEE802.3at PoE+ output ports

Up to 45W power budget to setup versatile devices at the edge of your network

Monitor status anytime anywhere through Nebula Cloud

Outdoor waterproof enclosure with IP55 protection design

6KV surge to safeguard sensitive network devices

Works reliably in extreme environment with wide range temperature (-20 to 50°C)

Datasheet PoE12-3PD

Check the status wherever and whenever

With support from Nebula, you can monitor the status of the PoE12-3PD through the Nebula control center via both the web interface and mobile app, enabling convenient access anytime, anywhere.

Continuous PoE

The PoE12-3PD features Continuous PoE capability to ensure non-stop power supply to IP cameras while the it is undergoing firmware upgrade or rebooting. Your surveillance network stays up-to-date for the highest possible stability and security.

Easy installation to fit in any deployments

To install the PoE12-3PD, just plug and play, no other settings required, no external power required as well. Additionally, designed with wall- and pole-mount and IP55 enclosure, the PoE12-3PD can be easily installed in most vertical locations. It is suitable for installation in hard-to-reach locations such as large buildings or outdoor environments.
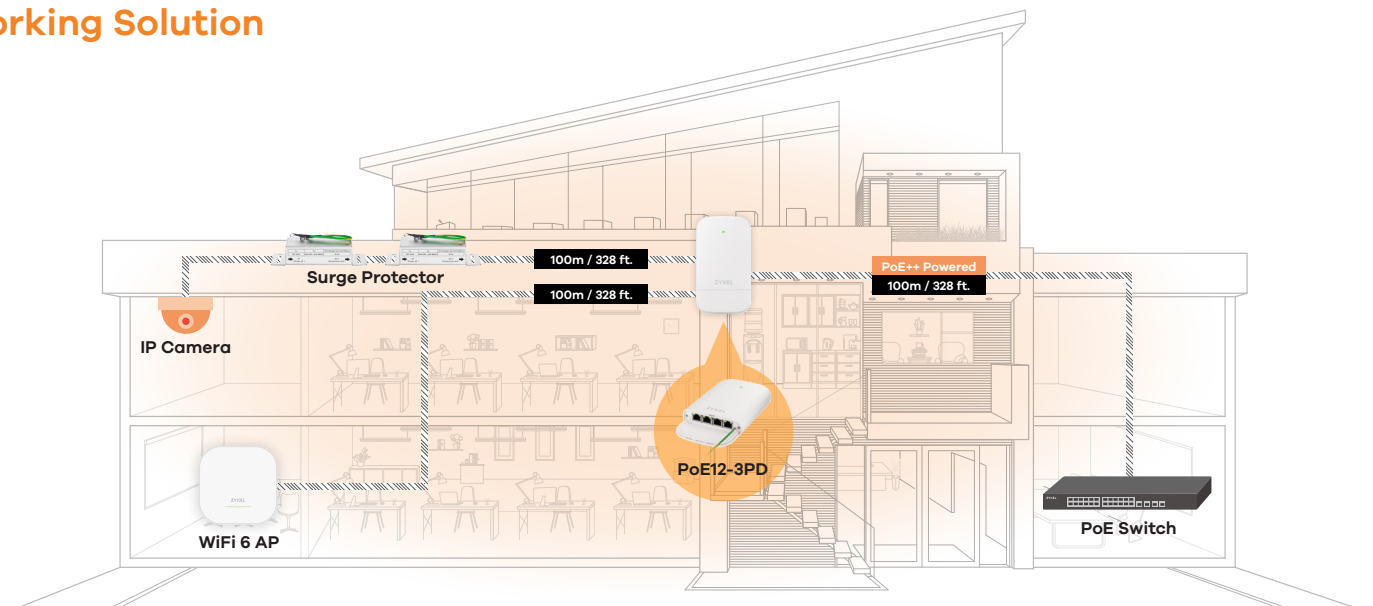
Robust design for harsh environments

With built-in 6KV stringent surge protection and designed to handle temperatures ranging from -20°C to 50°C, the PoE12-3PD can be placed in a variety of challenging environments and adapted to a broad range of field applications.

Networking Solution

Specifications

Model	PoE12-3PD
Product name	802.3bt outdoor PoE extender

Port Density	
Total port count	4
10/100/1000 Mbps	4

PoE	
PoE power budget	45 W with 802.3bt 60 W input power 19 W with 802.3at 30 W input power 7 W with 802.3af 15 W input power
PoE Standard	802.3at PoE+, 802.3bt PoE++

Performance	
Switching capacity (Gbps)	8
Forwarding rate (Mpps)	5.95
Packet buffer (byte)	128 K
MAC address table	2 K
Jumbo frame (byte)	9 K

Power	
Input	802.3bt (60 W) PoE input only (no external power supply)
Max. power consumption	3.73 W (Idle mode) 51 W (all ports, PoE on)

Physical Specifications		
Item	Dimensions (WxDxH)(mm/in.)	180 x 99 x 35.9/ 7.09 x 3.9 x 1.41
	Weight (kg/lb.)	0.257/0.57

Green Feature	
Fanless	Yes

ESD/Surge Protections	
Ethernet port surge protection	6 KV
Ethernet port ESD protection (air/contact)	8 KV/ 6 KV

Environmental Specifications		
Operating	Temperature	-20°C to 50°C/-4°F to 122°F
	Humidity	10%-95% non-condensing
Storage	Temperature	-40°C to 70°C/-40°F to 158°F
	Humidity	10%-95% non-condensing
MTBF (hr)		743,502
Heat dissipation (BTU/hr)		20.5

Standard

- IEEE802.3 10Base-T Ethernet
- IEEE 802.3u 100Base-Tx Ethernet
- IEEE 802.3ab 1000Base-T Ethernet
- IEEE 802.3z 1000 Base-X
- IEEE 802.3x flow control
- IEEE 802.3af PoE
- IEEE 802.3at PoE plus
- IEEE 802.3bt (60 W) PoE over 4 pair

Features

- Continuous PoE
- Remove Port PoE on/off
- Support Port status (including PoE status, consuming)
- Device Factory Reset
- IP55 waterproof rating enclosure
- Support wide temperature
- Firmware upgrade
- System log
- NTP
- Nebula Cloud management
- Web GUI

Zyxel One Network

ZON Utility

- Discovery of Zyxel switches, APs and gateways
- Centralized and batch configurations:
  - IP configuration
  - IP renew
  - Device factory reset
  - Device reboot
  - Device locating
  - Web GUI access
  - Password configuration
  - One-click quick association with Zyxel AP Configurator (ZAC)
- Automatic detection of the latest firmware
- Displays device serial number and hardware version
- Cloud mode on/off option for Hybrid series devices
- Intuitive Cloud connection status

Smart Connect

- Discover neighboring devices

LED Indicator

- PWR/Cloud
- Per-port Link/ACT
- PoE MAX
- Per-port PoE: PD port and PSE port
- Reset

Certification

- Safety
  - LVD EN 62368-1
  - BSMI
- EMC
  - CE
  - EAC
  - FCC
  - BSMI class B
- RoHS compliant

Package Contents

- PoE extender
- Safety warning and doc

Related Product

Using the Ethernet surge protector SURGEPRO-GE and the PoE12-3PD together can enhance protection for your valuable network devices from surges.

Product	SURGEPRO-GE

Interface Connections	2 RJ-45 connector
Data Line Protection	RJ-45 10/100/1000 Ethernet
IEEE 802.3af/at/bt Support	Yes (802.3bt 60 W supported)
Maximum Discharge Current	8 KA
Line to GND Protection Level	20 KV (10/700 us)/10 KA (8/20 us)
Line to Line Protection Level	4 KV (10/700 us)

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Datasheet PoE12-3PD