

Gigabit Outdoor PoE+ Extender

Datasheet

POE20E-Outdoor



Highlights

- 2× 10/100/1000 Mbps RJ45 ports
- Compliance with 802.3af/at devices
- Supplies up to 30 W, which meets the power consumption requirements of most IP cameras
- Extends a PoE/PoE+ network connection to 200 m (100 m+100 m)/500 m (250 m+250 m)* from the PoE power sourcing equipment
- Outdoor Weatherproof: IP68 dust & water proof; Wide operation temperatures of -40 to 65 °C and 6KV lightning protection further ensure stable operation against harsh outdoor conditions.
- Plug-and-Play, requires no configuration

Overview

The POE20E-Outdoor is a rugged Gigabit PoE+ Extender engineered to overcome network distance limitations in demanding outdoor environments. It seamlessly extends both data and power an additional 100 meters at full Gigabit speeds, delivering up to 30W of 802.3af/at compliant PoE+ to power devices like IP cameras and access points. Built for ultimate reliability, its IP68-rated weatherproof enclosure and an wide operating temperature range of -40°C to 65°C ensure flawless performance in any weather. Offering simple Plug-and-Play installation and an extended range of up to 250m* for lower-speed applications, the POE20E-Outdoor is the ideal solution for deploying surveillance and network hardware in remote locations where power and distance are a challenge.

Specifications

Hardware Features & Performance

Model		POE20E-Outdoor
General	Standards	IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3af, IEEE 802.3at
	LED	2×Link/Act
	Cable Type	10BASE-T: 2-pair UTP/STP (≤250m) of Cat. 3 or above 100BASE-TX: 2-pair UTP/STP (≤100m) of Cat. 5 or above 1000BASE-T: 4-pair UTP/STP (≤100m) of Cat. 5e or above
	Ports	1×10/100/1000 Mbps Auto-Negotiation RJ45 1×10/100/1000 Mbps Auto-Negotiation RJ45
	PoE Input	Compliance with 802.3af/at devices
	Max. PoE Output	30W
	Dimensions (W×D×H)	8.73×1.22×1.24 in (221.7×31×31.5 mm, including waterproofing components) 4.8×1.22×1.24 in (120.8×31×31.5 mm, excluding waterproofing components)
	Certification	CE, FCC, BSMI, KC
	MAC Address Table	2K
	Jumbo Frame	9216 bytes
Physical & Environment	Operating Temperature	-40°C to 65°C (-40°F to 149°F)
	Storage Temperature	-40°C to 70°C (-40°F to 158°F)
	Operating Humidity	15% to 90% RH non-condensing
	Storage Humidity	15% to 90% RH non-condensing
	IP Rating	IP68
	Lightning Surge Protection	6kV
	ESD/EMP Protection	Air: ±15kV Contact: ±10kV

* POE20E-Outdoor features an adaptive data rate design. Link stability may be affected by cable length, cable quality, and the characteristics of the connected devices. Under certain conditions—such as using 160–170m Cat5e cables (tested in lab environments)—intermittent connectivity may occur. To resolve this issue:

- (1) Manually configure the connected device to operate at 10 Mbps full-duplex or enable Extend Mode on the PSE, or
- (2) Adjust the cable length to avoid the affected range.

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