



OPE301GEO

Outdoor Gigabit PoE+ Extender

1x1000Base-T PoE In, 1x1000Base-T PoE Out, IEEE 802.3af/at, -40 to +55 °C, wall mounting



The OPE301GEO is an outdoor single-port Gigabit Power over Ethernet extender compliant with IEEE 802.3af (PoE) and 802.3at (PoE+) standards.

The ORIGO OPE301GEO PoE extender boosts the transmission distance for both data and power from a PoE switch to the connected Powered Device (PD). When cascaded, it supports ranges of up to 200 m with a single extender, 300 m with two extenders, and 400 m with three extenders¹. This solution enables seamless connectivity for IP cameras, Wi-Fi access points, IP phones, and other PoE-compliant equipment in outdoor areas and remote locations where power outlets and external power sources are not available.

The OPE301GEO is designed for outdoor use. The rugged metal enclosure with IP67 rating provides protection against dust and moisture, the IK10 vandal-resistant design increases resistance to mechanical impact, and the operating temperature range from -40 to +55 °C allows the device to be used in harsh environments. ESD protection up to 6 kV on the ports enhances equipment reliability, and the compact housing with wall-mount capability simplifies installation.

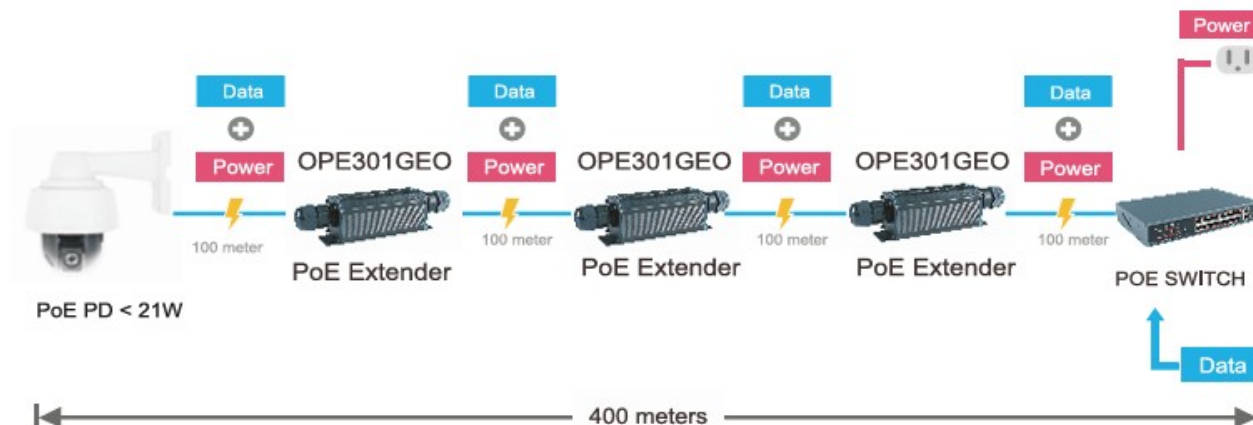
Key Features

- Extends PoE transmission distance up to 200 m (with one extender) / up to 400 m (with three extenders)¹
- IP67/IK10 enclosure; -40 to +55 °C
- 1×10/100/1000Base-T PoE Input and 1×10/100/1000Base-T PoE Output
- Compliant with IEEE 802.3af (PoE), 802.3at (PoE+) standards
- Input power: 30/15W
- Output power: max 22.2W²
- Automatic PoE device detection
- ESD protection: up to 6 kV
- No configuration required
- Wall-mountable design

¹ Actual PoE transmission distance of up to 400 m depends on the specific PoE-powered device (PD) in use and its power consumption.

² Actual output power depends on the PoE PSE switch or PoE injector, Ethernet cable length, cable specifications, and operating environmental conditions.

Connection Diagram



PoE Extender Distance Table

Model	From Switch/Injector	150 Meters	200 Meters	300 Meters	400 Meters
OPE301GEO	54VDC 15W	45VDC 12.3W	43VDC 11.8W	39VDC 10.2W	32VDC 8.6W
	54VDC 30W	40VDC 22.2W	37VDC 20.3W	32VDC 14W	32VDC 8.9W
	57VDC 60W	46VDC 23.7W	41VDC 21W	32VDC 14W	32VDC 8.9W

Product Specifications

Hardware Specifications

Interface	• 1×10/100/1000Base-T PoE Input • 1×10/100/1000Base-T PoE Output
Standards and Functions	• IEEE 802.3 10Base-T • IEEE 802.3u 100Base-TX • IEEE 802.3ab 1000Base-T • IEEE 802.3af (PoE) • IEEE 802.3at (PoE+) • Half/full-duplex support • Auto-negotiation of speed and duplex mode • Auto MDI/MDIX detection on all ports • PoE device auto-detection
Power Transmission Contacts	• PoE IN: 1/2 (+), 3/6 (-) and 4/5 (+), 7/8 (-) • PoE OUT: 1/2 (+), 3/6 (-) and 4/5 (+), 7/8 (-)
PoE Data and Power Transmission Distance	• Up to 200 m – with 1 extender • Up to 300 m – with 2 extenders cascaded • Up to 400 m – with 3 extenders cascaded* * Actual PoE transmission distance of up to 400 m depends on the specific PoE-powered device (PD) in use and its power consumption.

Input Voltage	• 44V to 57V DC
Output Voltage	• 42V to 55V DC
Max Input Power	• 30W
Max Output Power	• Up to 22.2W – 150 m, 1 extender • Up to 20.3W – 200 m, 1 extender • Up to 14W – 300 m, 2 extenders • Up to 8.9W – 400 m, 3 extenders
Case	• Metal • Protection rating: IP67, IK10
Mounting	• Desktop • Wall

Physical Parameters

Dimensions (L x W x H)	• 185 x 45 x 45 mm
Weight	• 0.3 kg

Operating Conditions

Power	• From a PoE source (up to 30W)
Max Power Consumption	• 1.7W
Standby Power Consumption	• ≤ 1W
ESD Protection	• Up to 6 kV
Temperature	• Operating: -40 to 55 °C • Storage: -40 to 70 °C
Humidity	• Operating: up to 90% (non-condensing) • Storage: up to 95% (non-condensing)

Delivery

Package Contents	• OPE301GEO PoE extender • Wall mounting kit • Two waterproof glands • Quick Installation Guide
------------------	--

Ordering Information

OPE301GEO/30W	Outdoor PoE extender 802.3af/at, 1x1000Base-T PoE In, 1x1000Base-T PoE Out, -40..55°C
---------------	---