



OPE301GE

Gigabit PoE++ Extender

1x1000Base-T PoE In, 1x1000Base-T PoE Out, IEEE 802.3af/at/bt, wall mounting



The OPE301GE is a single-port Gigabit Power over Ethernet extender compliant with IEEE 802.3af (PoE), 802.3at (PoE+), and 802.3bt (PoE++) standards.

The ORIGO OPE301GE 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 at remote sites, eliminating the need for intermediate power points or the installation of additional network switches.

Support for all contemporary PoE standards (802.3af/at/bt) and an output power capacity of up to 63W² ensure seamless interoperability with virtually any PoE-compliant device – from standard office IP phones to high-power PTZ cameras with built-in heaters. Furthermore, the onboard DIP switch with PoE OFF/ON control enables the extender to interface with non-PoE devices as well, by simply disabling the power feed on the output port.

The OPE301GE is designed to operate across a wide temperature range of -40 to 65°C, making it suitable for installation in unheated indoor environments. All ports feature 6 kV electrostatic discharge (ESD) protection, ensuring robust immunity to induced voltage surges. Its rugged metal housing provides enhanced resistance to physical damage, while the integrated wall-mounting brackets allow for flexible and convenient placement in virtually any location.

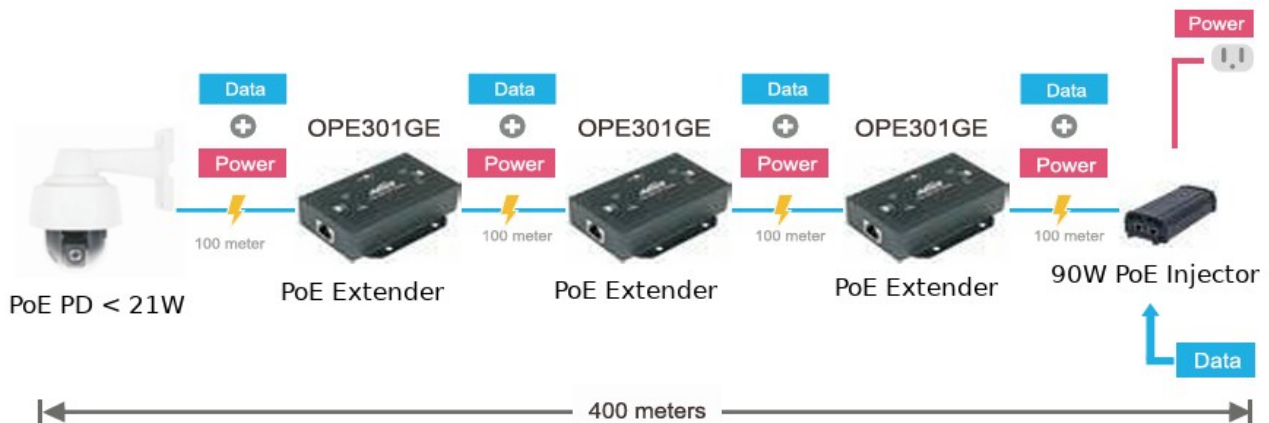
Key Features

- Extends PoE transmission distance up to 200 m (with one extender) / up to 400 m (with three extenders)¹
- 1×10/100/1000Base-T PoE Input and 1×10/100/1000Base-T PoE Output
- Compliant with IEEE 802.3af (PoE), 802.3at (PoE+), and 802.3bt (PoE++) standards
- Input power: 90/60/30/15W
- Output power: max 63W²
- Automatic PoE device detection
- DIP switch with PoE OFF/ON control for connecting non-PoE devices
- Operating temperature: -40 to 65 °C
- ESD protection: up to 6 kV
- 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
OPE301GE	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	45VDC 46.5W	43VDC 43W	32VDC 34.2W	32VDC 22.7W
	57VDC 90W	40VDC 63W	35VDC 58.2W	32VDC 34.2W	32VDC 22.7W



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+) • IEEE 802.3bt (PoE++) • Half/full-duplex support • Auto-negotiation of speed and duplex mode • Auto MDI/MDIX detection on all ports • PoE device auto-detection
DIP Switch	• PoE OFF/ON
LEDs	• PWR - Solid green: Power on state - Off: Power off • LAN (In) - Solid green: Connection/link-up - Blinking green: Data pass - Off: No connection • LAN (Out) - Solid green: Connection is established - Blinking green: Data pass - Off: No connection • PoE - Solid green: PoE device is powered - Off: PoE device is not powered or is not connected
Power Transmission Contacts	• PoE IN: 1-8 • 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	• 90W
Max Output Power	• Up to 63.0W – 150 m, 1 extender • Up to 58.2W – 200 m, 1 extender • Up to 34.2W – 300 m, 2 extenders • Up to 22.7W – 400 m, 3 extenders
Case	• Metal
Mounting	• Desktop • Wall

Physical Parameters

Dimensions (L x W x H)	• 90 x 70 x 28.6 mm
Weight	• 0.19 kg
Package Size	• 11 x 9.7 x 3.7 cm
Gross Weight	• 0.22 kg

Operating Conditions

Power	• From a PoE source (up to 90W)
Max Power Consumption	• 1.6W
Standby Power Consumption	• ≤ 1W
ESD Protection	• Up to 6 kV
Temperature	• Operating: -40 to 65 °C • Storage: -40 to 85 °C
Humidity	• Operating: up to 90% (non-condensing) • Storage: up to 95% (non-condensing)

Delivery

Package Contents	• OPE301GE PoE extender • Wall mounting kit • Quick Installation Guide
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Ordering Information

OPE301GE/90W	PoE extender 802.3af/at/bt, 1x1000Base-T PoE In, 1x1000Base-T PoE Out
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