



OPE302GE

Gigabit PoE++ Extender

1x1000Base-T PoE In, 2x1000Base-T PoE Out, IEEE 802.3af/at/bt, wall mounting



The OPE302GE is a 2-port Gigabit Power over Ethernet extender compliant with IEEE 802.3af (PoE), 802.3at (PoE+), and 802.3bt (PoE++) standards.

The ORIGO OPE302GE PoE extender boosts the data and power transmission distance from a PoE switch or PoE injector to connected devices up to 200 m. Two output ports allow two PoE devices to be connected simultaneously at a remote site without intermediate power points or additional 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. PoE devices are detected automatically. Two independent PoE OFF/ON DIP switches allow an extender to be used for connecting non-PoE devices by simply disabling power on the required port.

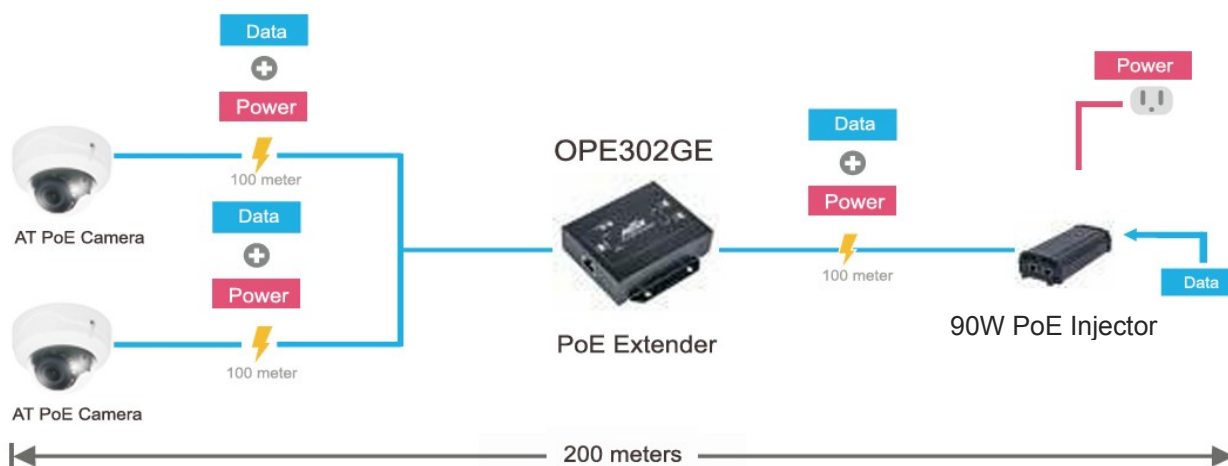
The OPE302GE is designed to operate across a wide temperature range of -40 to 65°C, making it suitable for installation in unheated indoor environments. All ports feature 6 kV electrostatic discharge (ESD) protection, ensuring robust immunity to induced voltage surges. Its rugged metal housing provides 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
- 1×10/100/1000Base-T PoE Input and 2×10/100/1000Base-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 63W for two ports¹
- Automatic PoE device detection
- Two DIP switches 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 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
OPE302GE	54VDC 15W	45VDC 12.3W for 2ports	43VDC 11.8W for 2ports
	54VDC 30W	40VDC 22.2W for 2ports	37VDC 20.3W for 2ports
	57VDC 60W	45VDC 46.5W for 2ports	42VDC 43W for 2ports
	57VDC 90W	40VDC 63W for 2ports	35VDC 58.2W for 2ports

Product Specifications

Hardware Specifications

Interface	• 1×10/100/1000Base-T PoE Input • 2×10/100/1000Base-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	• 2 x PoE OFF/ON 1–2

LEDs	• PWR - Solid green: Power on state - Off: Power off • LAN - Solid green: Connection/link-up - Blinking green: Data pass - Off: No connection • LAN 1-2 - Solid green: Connection is established - Blinking green: Data pass - Off: No connection • PoE 1-2 - 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
Input Voltage	• 44V to 57V DC
Output Voltage	• 42V to 55V DC
Max Input Power	• 90W
Max Output Power (for 2 ports)	• Up to 63.0W – 150 m • Up to 58.2W – 200 m
Case	• Metal
Mounting	• Desktop • Wall

Physical Parameters

Dimensions (L x W x H)	• 90 x 87 x 28.6 mm
Weight	• 0.21 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)
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Max Power Consumption	• 1.8W
Standby Power Consumption	• $\leq 1W$
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	• OPE302GE PoE extender • Wall mounting kit • Quick Installation Guide
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Ordering Information

OPE302GE/90W	PoE extender 802.3af/at/bt, 1x1000Base-T PoE In, 2x1000Base-T PoE Out
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