



OPE302GEO

Outdoor Gigabit PoE++ Extender

1x1000Base-T 802.3af/at/bt PoE In, 2x1000Base-T 802.3af/at PoE Out, -40 to +55 °C, wall mounting



The OPE302GEO is an outdoor 2-port Gigabit Power over Ethernet extender compliant with IEEE 802.3af (PoE), 802.3at (PoE+), and 802.3bt (PoE++)¹ standards.

The ORIGO OPE302GEO 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.

The OPE302GEO 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.

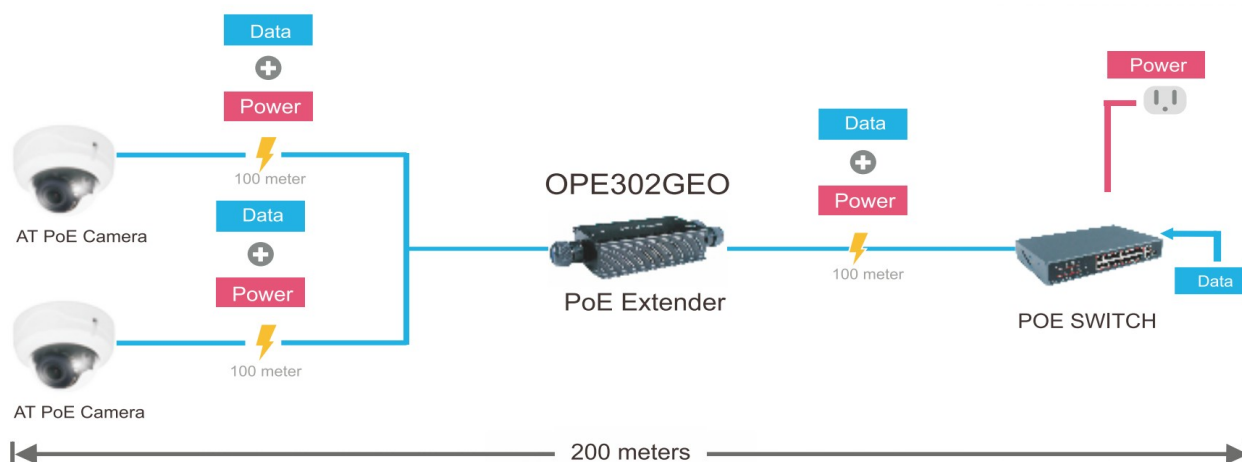
Key Features

- Extends PoE transmission distance up to 200 m
- IP67/IK10 enclosure; -40 to +55 °C
- 1×10/100/1000Base-T 802.3af/at/bt PoE Input and 2×10/100/1000Base-T 802.3af/at PoE Output
- Input power: 90/60/30/15W
- Output power: max 47.6W for two ports²
- Automatic PoE device detection
- ESD protection: up to 6 kV
- No configuration required
- Wall-mountable design

¹ The 802.3bt (PoE++) standard is supported only on the input port. The output ports operate according to the 802.3af and 802.3at standards.

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

Connection Diagram



OPE302GEO	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	44VDC 45.4W for 2ports	41VDC 42W for 2ports
	57VDC 90W	40VDC 47.6W for 2ports	37VDC 43.2W for 2ports

Product Specifications

Hardware Specifications

Interface	• 1×10/100/1000Base-T PoE Input (802.3af/at/bt) • 2×10/100/1000Base-T PoE Output (802.3af/at)
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
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

Input Voltage	• 44V to 57V DC
Output Voltage	• 42V to 55V DC
Max Input Power	• 90W
Max Output Power (for 2 ports)	• Up to 47.6W – 150 m • Up to 43.2W – 200 m
Case	• Metal • Protection rating: IP67, IK10
Mounting	• Wall

Physical Parameters

Dimensions (L x W x H)	• 230 x 90 x 40 mm
Weight	• 0.38 kg

Operating Conditions

Power	• From a PoE source (up to 90W)
Max Power Consumption	• 1.8W
Standby Power Consumption	• $\leq 1W$
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	• OPE302GEO PoE extender • Wall mounting kit • Three waterproof glands • Quick Installation Guide
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Ordering Information

OPE302GEO/60W	Outdoor PoE extender 802.3af/at/bt, 1x1000Base-T PoE In, 2x1000Base-T PoE Out, -40..55°C
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