



PT-PEX25GB-OT PoE Extender

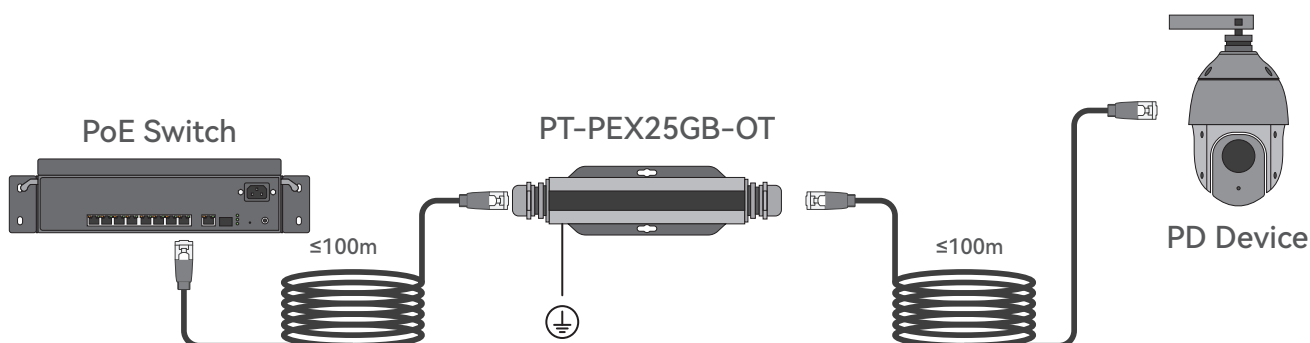
Product Introduction

The PT-PEX25GB-OT is an industrial-grade 2.5G PoE network extender tailored for harsh outdoor environments. Ideal for security surveillance and outdoor network deployments, it utilizes advanced 2.5G tech for long-range PoE power delivery and ultra-fast, stable data transmission, meeting high-traffic application needs.

Featuring an aluminum alloy shell with electromagnetic shielding and corrosion resistance, its IP67-rated, white electrostatic-sprayed surface withstands dust, water, and extreme weather. Compliant with IEC 60950-22, it operates stably from -40°C to +65°C.

With CAT5e/CAT6 cables, it achieves 2.5Gbps speeds, boosting efficiency over traditional models. A single unit enables 200-meter transmission, extendable to 500 meters via four-stage cascading. Integrated 6kV surge and ESD protection, along with overcurrent safeguards, ensure end-to-end equipment and link security, making it a reliable choice for outdoor networking.

Product Connection Diagram



Product Specification

Item	PT-PEX25GB-OT
PoE Output Interface	1*100/1000/2500MBase-T RJ45(with waterproof connector)
PoE Standard	IEEE802.3af/at/bt Power over Ethernet
Input Voltage	44~57Vdc
Input Power	Max 95W
Output Power	55Vdc 1.30A, 72W(Max)
IPC	<2.5W
ESD Protection	6kV contact discharge; 8kV air discharge, Standard: IEC61000-4-2
Surge Protection	Protected Lines: 1,2,3,4,5,6,7,8 Common Mode Protection(10/700us): 6KV Differential Mode Protection(10/700us): 1.5KV Clamping Voltage (Line-to-Ground) : 300V Clamping Voltage (Line-to-Line) : 10V Insertion Loss (10MHz/100MHz) : -1db Return Loss (10MHz/100MHz) : -20db Response Time: 5ns
Switching Mode	Store and forward
Network Protocols	IEEE802.3 Ethernet IEEE802.3u Fast Ethernet IEEE802.3ab Gigabit Ethernet IEEE802.3i/IEEE802.3u/IEEE802.3ab/IEEE802.3z IEEE802.3bz
Trans. Distance	Extends 100m per extender Up to 4 cascaded levels, max distance 500m
Op Temp	-40°C — 65°C
Op Humid	5%-95%, non-condensing
Op Alt	Up to 5000m
Stor Temp	-40°C — 85°C
Stor Humid	10%-90%, non-condensing
Enclosure	Material: Aluminum alloy(metal sealing + waterproof)
Installation	Pole-mount (φ70~110mm) / Wall-mount (expansion screws)
Protection	IP67 (dust-proof & waterproof)
Size & Weight	209mm X 53mm X 37.5mm(410g)
Certification	CE FCC

Model Comparison Chart

Item	PT-PEX01G-OT	PT-PEX25GB-OT	PT-PEX02GB-OT
Data Rates	100/1000Mbps	100/1000/2500Mbps	100/1000Mbps
Ports	PoE Input * 1 PoE Output * 1		PoE Input * 1 PoE Output * 2
Cascading Capability	100 meters per level, up to 500 meters with 4-level cascading		
Protection Rate	IP67		
Dimensions	209mmx53mmx37.5mm		194mmx101mmx41mm



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