



Switch-Side Active PoE to Passive 24V PoE Converter

10/100M
1000M

Compact
Size

Plug & Play



PSE204-ACP24

Key Features:

Gigabit Passthrough: Supports 10/100/1000 Mbps data rate with full transparency.

Standard PoE Input: Accepts IEEE 802.3af/at active PoE (48V) from any standard switch.

24V Passive Output: Delivers 24V DC over pins 4/5 (+) and 7/8 (-), matching legacy wireless devices.

Overload Protection: Built-in overcurrent and short-circuit safeguards protect connected equipment.

Flame-Retardant ABS Housing: Lightweight ABS plastic shell with V0 fire rating for enhanced safety.

Compact & Lightweight: Small form factor fits easily into tight enclosures and junction boxes.

Wide Operating Temperature: Reliably works from -30°C to +75°C for outdoor and industrial use.

Surge Protection: Integrated surge suppression defends against lightning-induced voltage spikes.

Versatile Applications: Ideal for powering wireless bridges, access points, and IP cameras that require 24V passive PoE.

Switch-Side Active PoE to Passive 24V PoE Converter

The Switch-Side Active PoE to Passive 24V PoE Converter bridges standard 48V IEEE 802.3af/at PoE infrastructure with legacy 24V passive devices. Featuring an integrated RJ45 male connector, it plugs directly into the upstream PoE switch, eliminating redundant patch cables and reducing rack clutter.

By centralizing the 48V-to-24V step-down conversion at the PSE end, it leverages existing Ethernet cabling to power remote 24V endpoints—such as Ubiquiti airMAX CPEs, MikroTik RouterBOARDS, and IP cameras—without local AC supplies. The unit executes a standard IEEE 802.3af/at handshake before delivering regulated 24V DC passive output (Mode B) at full Gigabit wire speed.

Engineered for harsh environments, it operates reliably from -30°C to +75°C with integrated TVS surge and ESD protection. Housed in a compact, UL94 V-0 flame-retardant enclosure, this plug-and-play converter optimizes rack airflow, reduces deployment costs, and ensures uninterrupted connectivity for mission-critical networks.

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Gigabit Switch-Side Active PoE to Passive 24V PoE Converter

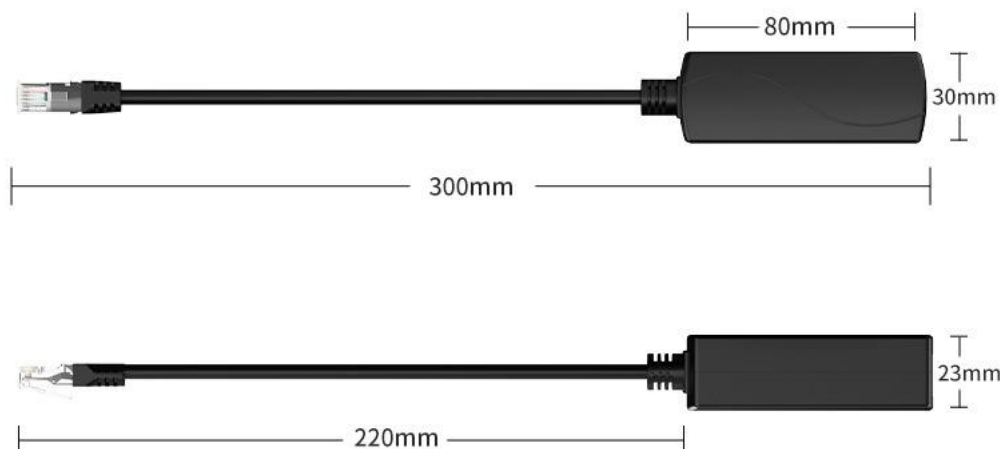
Technical Datasheet

Model	PSE204-ACP24
General & Physical Performance	
Product Name	Switch-Side Active PoE to Passive 24V PoE Converter
PoE Input Port	1 × 10/100/1000Base-T RJ45 (PoE PD)
PoE Output Port	1 × 10/100/1000Base-T RJ45 (24V Passive PoE Output)
Data Rate	10/100/1000 Mbps (Gigabit Ethernet)
Cable Compatibility	Cat5 / Cat5e / Cat6 / Cat6a
Ethernet Standards	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-T Fast Ethernet
	IEEE 802.3ab 1000Base-T Gigabit Ethernet
Housing Material	ABS (Flame-retardant, V0 rating)
ESD protection	4KV
Dimensions (L × W × H)	80 × 30 × 23mm (180mm pigtail)
Net Weight	0.15 kg (0.22 lbs)
Power Specifications	
PoE Input Standard	IEEE 802.3af / IEEE 802.3at (PoE / PoE+)
Input Type	Active PoE
Input Voltage Range	48 – 57V DC
Output Type	Passive PoE
Output Voltage Range	24V DC (Default) 12V/18V/36V can be customized
Output Current (Max)	1A
Maximum Output Power	24W
Output Pin Assignment	4, 5 (+), 7, 8 (–) — Mode B
Output Voltage Tolerance	±2%
Environmental & Reliability Ratings	
Operating Temperature	-30°C to +75°C
Storage Temperature	-40°C to +85°C
Operating Humidity	5% to 95% RH (Non-condensing)
Surge Standards	IEC 61643-21 / EN 61643-21 (Telecommunications & Signaling SPDs)
Certifications	CE, FCC, RoHS Compliant

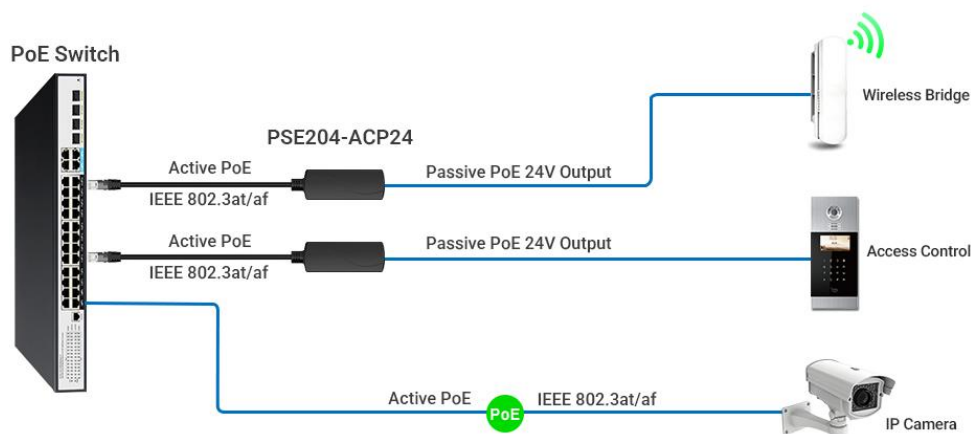
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Gigabit Switch-Side Active PoE to Passive 24V PoE Converter

Structural Dimensions



Applications



Ordering Information

PSE204-ACP24

Gigabit Switch-Side active PoE to passive 24V PoE converter , 10/100/1000M, input IEEE802.3af/at, output 24V passive PoE

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