



1-Channel 10Gbps Ultra High Power PoE++ Midspan Injector



PSE102-10G-90W

Internal Power



90W

PoE

6KV

Lightning Protection



Key Features:

Ports: Provide 2*100M/1G/2.5G/10GBase-t Ethernet ports

PoE Standard: IEEE802.3af/at/bt Power over Ethernet (PoE) Compliant

Total Power: Total power budget of 90W for all single PoE ports

Self-adaption: RJ45 port supports 10/100/1000/2500/10000Mbps Auto MDI/MDIX

Wide Application: Designed for Wifi AP, IP security camera and base station etc

Surge protection: Protect the device from lighting surges and others electrical hazards

Considerate Design: Exquisite compact size.wall mounted with fanless design

Easy to use: Plug and play, No configuration required

10GBASE-T Multi-Gigabit Passthrough for Enterprise Infrastructure

Seamlessly transforms legacy non-PoE 10Gbps copper links to support next-gen Wi-Fi 7 Tri-Band access points, 8K IP camera arrays, and AI edge nodes—delivering ultra-low latency, full-duplex 10Gbps line-rate throughput over Cat6A cabling up to 100 meters without bandwidth degradation.

IEEE 802.3bt Type 4 Class 8 (90W Max) Intelligent Power Sensing

Employs an advanced 4-pair active handshake detection mechanism to adaptively deliver precise power output (15.4W / 30W / 60W / 90W). Safely isolates non-PoE endpoints while preventing current overloads or unexpected reboots on heavy-draw powered devices.

Rugged Metallic / Thermally Optimized Enclosure (IP40 & Flexible Mounting)

Engineered with a high-density, fire-retardant metal housing designed for maximum thermal dissipation during continuous 90W high-load operation. Features IP40 dust resistance and integrated wall/DIN-rail mounting tabs for clean deployment in server racks or wiring closets.

6kV Industrial Surge Immunity & Environmental Hardening

Equipped with built-in 6kV differential/common-mode lightning surge suppression and 8kV ESD isolation. Operating seamlessly across extended industrial temperatures (-20°C to +55°C), it protects core switches from outdoor line transients and power grid fluctuations.

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1 Channel 100/1000/2500/10000Mbps Ultra High Power PoE Midspan Injectors

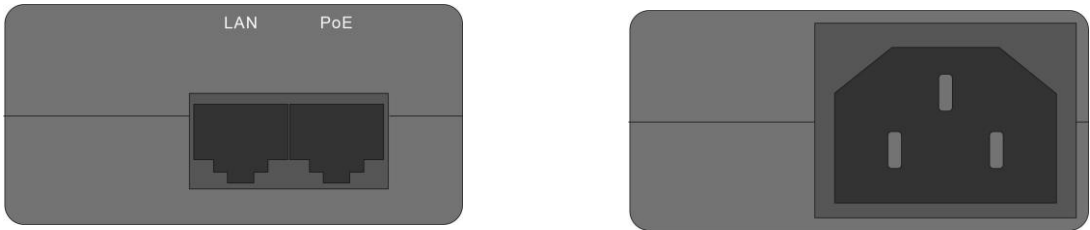
Technical Datasheet

Model	PSE102-10G-90W
Hardware Specifications	
Interface	"Data" Input Port: 1 x RJ45 STP "PoE (Data + Power)" Output Port: 1 x RJ45 STP AC Input Power Socket: 1
LED Indicator	System: Power x 1 (Green) PoE Port: Active, PoE ready-in-use x 1 (Green)
Network Cable	10BASE-T: 2-pair UTP Cat. 3, 4, 5, up to 100M (328ft) 100BASE-TX: 2-pair UTP Cat. 3, 4, 5, up to 100M (328ft) 1000BASE-T: 4-pair UTP Cat. 5e, 6 up to 1000M (328ft) 2500BASE-T: 4-pair UTP Cat. 5e, 6 up to 2500M (328ft) 2500BASE-T: 4-pair UTP Cat. 6a, 7 up to 10000M (328ft) EIA/TIA-568 100-ohm STP (100m)
Data Rate	100/1000/2500/10000Mbps
Unit Output Voltage	DC 50-56V
PoE Supply Type	1245(+) 3678(-)
PoE Power budget	90 watts max.
Number of Devices that can be powered	1
Power requirement	AC100-240V 50/60Hz
Environment specification	Operating temperature: -20℃~55℃ , operating humidity: 5%~95% Storage temperature: -40℃~75℃ , storage humidity: 5%~95%
Dimensions(W*D*H)	148*62*32mm (5.83*2.44*1.26in)
Weight	0.5Kg
Power over Ethernet (PoE) Specifications	
Network standard	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bz 2500BASE-T 2.5 Gigabit Ethernet IEEE 802.3ae 10000BASE-T 10 Gigabit Ethernet IEEE 802.3af Power over Ethernet IEEE 802.3at High Power over Ethernet Plus IEEE 802.3bt High Power over Ethernet Plus
PoE Standard	IEEE 802.3af Power over Ethernet/PSE IEEE 802.3at Power over Ethernet Plus/PSE IEEE 802.3bt Power over Ethernet
PoE Supply Type	1245(+) 3678(-)
Safety	FCC Part15 Class A,CE,RoHs

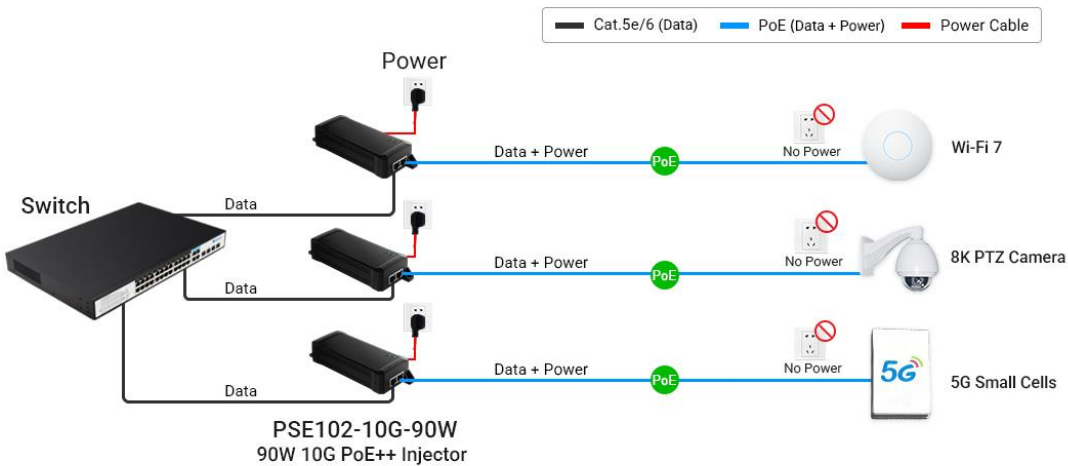
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Interfaces



Applications



Ordering Information

PSE101-10G-90W	1 Ports 10Gbps Ultra high power PoE midspan injector, 90W PoE budget
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