

8 PoE+2Gb Booster PoE Switch

Westermo PSI-1010G-24V/48V

- Eight 10/100 TX IEEE 802.3af PoE ports plus two 10/100/1000TX uplink ports
- Built-in DC 12 V ~ 48 V booster for rail, bus, transit transportation
- 65 W total power budget with max. 15.4 W per port for PoE cameras
- Two gigabit Ethernet ports for larger uplink bandwidth of surveillance
- QoS for prioritized video transmission
- Fault relay for active warning of port failure
- IP31 rugged aluminum case
- -25 ~ 70°C operating temperature



The Westermo PSI-1010G is a PoE booster Switch designed with 8 Fast Ethernet PoE ports and 2 Gigabit uplink ports to ensure high-bandwidth uplink connection for large-scale surveillance in transportation system networks. The PSI-1010G integrates revolutionary vehicle PoE technology – the 12 V to 48 V power booster makes the unit ideal for the deployment of standard PoE IP cameras feasible on buses, railcars, ships, etc.

The compact IP-31 grade aluminum alloy metal enclosure allows the PSI-1010G to reliably operate under wide temperature ranges (-25 ~ 70°C).

The PSI-1010G/24 can be powered by DC 12 ~ 24 V and deliver 15.4 W per port and 65 W per unit at DC 48 V to PoE-enabled devices such as IP cameras, PoE Wireless APs, PoE IP phones... etc.

The PSI-1010G/48 can only be powered with 48 VDC.

Specifications

Technology	
Standard	IEEE802.3 10Base-T, IEEE 802.3u 100Base-T Fast Ethernet, IEEE 802.3ab 1000Base-T, IEEE802.3x Flow Control and Back-pressure, IEEE 802.3af Power Over Ethernet, IEEE 802.1p Class of Service
PoE output voltage	DC 48 V
Switch Technology	Store and Forward Technology with 32 Gbit/s Switch Fabric

Interface	
Configuration	802.3af compliant PoE ports x 4 10/100/1000Base-TX x 2 Auto MDI/MDI-X, Auto Negotiation
Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable (100 m) 100 Base-TX: 2/4-pair UTP/STP Cat. 5 cable (100 m) 1000 Base-T: 4-pair UTP/STP Cat. 5 cable (100 m)
Diagnostic LED	Power (Green) x1 Fault alarm (Red) x1 PoE (Orange) x8 Link/Activity (Green) x8 Full duplex/Collision (Orange) x8 Gigabit Copper: Link/Act (Green) x2 Gigabit Copper: Speed (Orange) x2
Relay Alarm	Dry Relay output with 1 A @ 24 V ability
PoE Technology	Alternative B

Performance	
Transfer Rate	14.880 pps for 10M Ethernet, 148.800 pps for 100M Fast Ethernet, 1.488,100 pps for Gigabit Ethernet
Transfer packet size	64 bytes to 1522 bytes (with VLAN Tag)
MAC Address	8K
Packet Buffer	1 Mbits

Power Requirements	
Power	12 ~ 24 V or 48 VDC (depending on model) with reversed protection Isolated power input
Power Consumption	30 Watt without PoE loading 95 Watt with full PoE loading

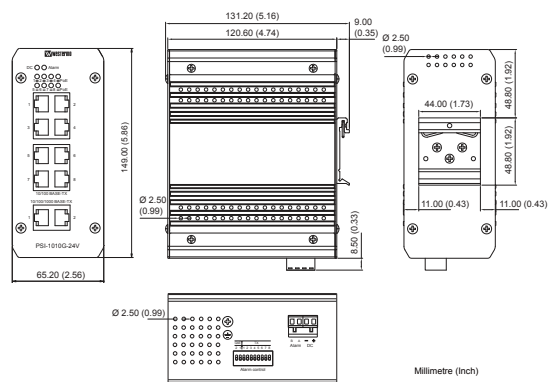
Mechanical	
Construction	Rugged Aluminum Alloy Chassis, IP31 protection
Mounting	DIN-Rail mount
Dimensions	66 (W) x 149 (H) x 120.5 (D) mm
Weight	1.05 kg

Environmental	
Operating Temperature	48 V: -13 ~ 158°F (-25 ~ 70°C), 5 to 95% RH 24 V: -13 ~ 140°F (-25 ~ 60°C), 5 to 95% RH
Storage Temperature	-40 ~ 176°F (-40 ~ 80°C), 5 to 95% RH

Regulatory Approvals

EMI	FCC class A, CE/EN55022 Class A
EMS	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11
Shock	IEC60068-2-27 (50 g peak acceleration)
Railway	EN 55022 Class A
Vibration	IEC60068-2-6 (5 g / 5 ~ 500 Hz / random operation)
Warranty	5 years

Dimensions (Unit – mm / In)



Ordering Information

Art.no	Description
3626-0110	Westermo PSI-1010G-24 V
	Quick Installation Guide
Art.no	Description
3626-0120	Westermo PSI-1010G-48 V
	Quick Installation Guide