

Slim size Full-Giga PoE Switch for Industry

DP208 Industrial 8G PoE Switch

DP208-LV Industrial 8G PoE Switch with 12/24V Booster

The DP208 and DP208-LV are industrial 8-port Full-Giga PoE Ethernet switches, delivering 8 port PoE 802.3af/at. The rugged IP40 protection design of DP208 can stand for harsh environment. Both DP208 and DP208-LV operates under wide temperature (from -40 to 70°C) and have power saving design for Efficient Power Management. The compact size can fit in for space limited cabinets. The DP208-LV accepts low voltage input with the 12/24V to 54V booster power design for all kinds of PoE applications.



PoE+

-40~70°C



CE



Features & Benefits

Full Gigabit Switching

- 8-port Full-Giga Ethernet with Auto Negotiation
- 4K MAC address table
- Support 9K Jumbo Frame
- Support Broadcast storm protection
- Stores and forwards with non-blocking switch fabric

Extreme PoE Capability

- 8-port IEEE 802.3af/at compliant PoE technology, up to 30W per port
- Max. 120W system PoE power budget

QoS Service for Time-Sensitive Applications

- IEEE 802.1Q VLAN priority tagging

Booster Power Design (DP208-LV)

- Booster PoE Design available for 12/24 input to 54V output for 802.3at application
- 12~57VDC Input Range
- Max. 60W PoE budget at 12V Input
- Max. 120W PoE budget at 24V Input

IEEE 802.3az EEE Power Management

- Ultra low power design, 3.2W when full loading w/o PD
- Energy Efficient Ethernet for low power requirement
- Idle power saving mode for energy efficiency

Rugged Mechanical Design

- Robust design protects from mechanical deformation
- IP40 ingress protection to withstand harsh environment (Optional IP41 protection)
- Wide operating temperature range -40 ~ 70°C
- CE marking
- IEC61000-6-2/IEC61000-6-4 heavy industrial EMC



Interfaces

DP208

Power Connector

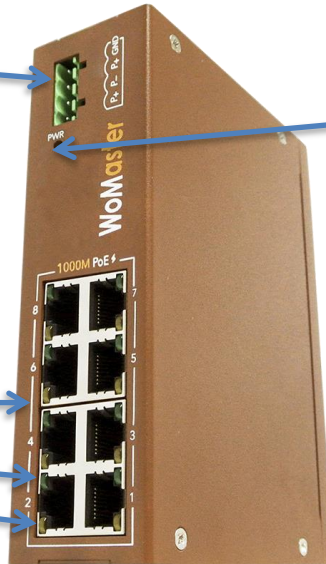
- 1 x 4 pin terminal block
3 pin for power input
1 pin Ground
- Power Input voltage:
802.3at: 54V(50~57V)
802.3af: 48V(44~57V)

Power LED

Gigabit Ethernet with PoE

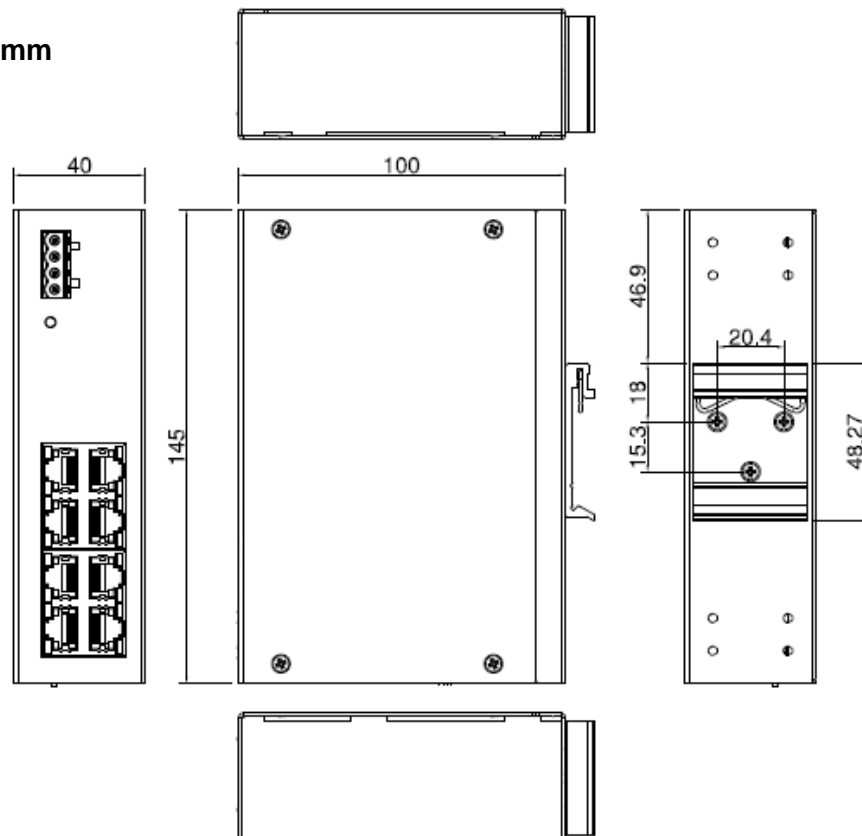
- 8-port 100/1000MBase-T
, IEEE 802.3 af/at PoE
- LINK/ACK LED
- PoE LED

Din Clip



Dimensions

DP208:
145(H)x40(W)x100(D)mm



(mm)



Interfaces

DP208-LV

Power Connector

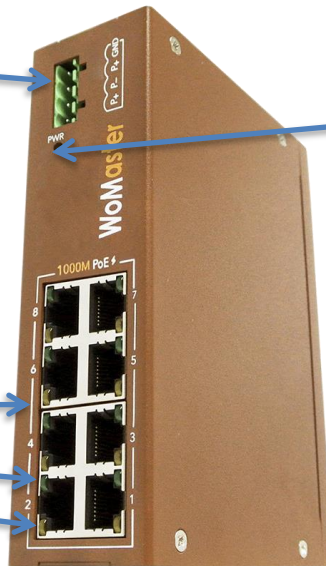
- 1 x 4 pin terminal block
- 3 pin for power input
- 1 pin Ground
- Power Input voltage:
12VDC (12~57VDC)

Power LED

Gigabit Ethernet with PoE

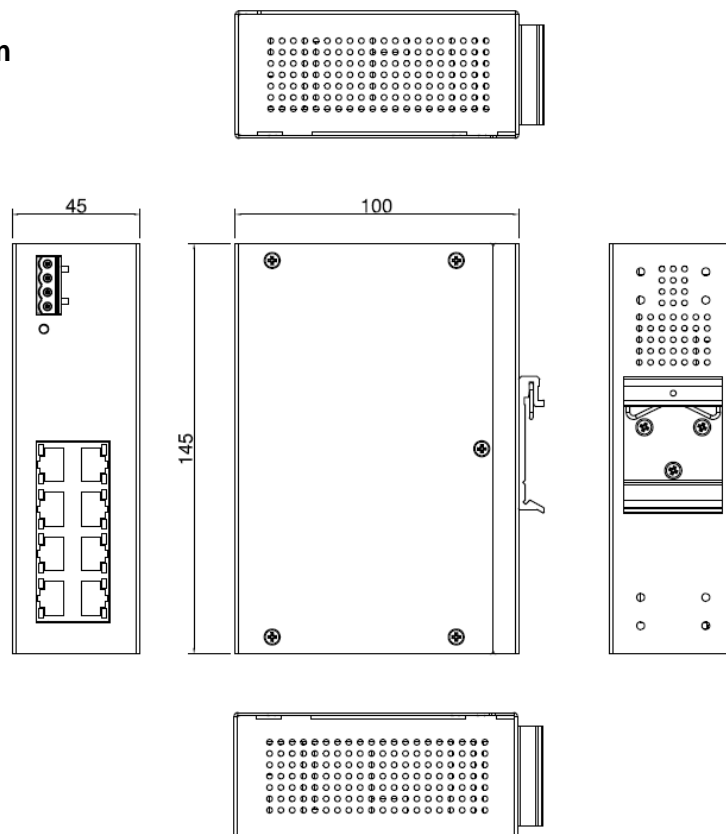
- 8-port 100/1000MBase-T
- IEEE 802.3 af/at PoE
- LINK/ACK LED
- PoE LED

Din Clip



Dimensions

DP208-LV:
145(H)x45(W)x100(D)mm



(mm)



Technology

Standard	IEEE 802.3af/at Power over Ethernet
	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Fast Ethernet
	IEEE 802.3ab 1000Base-T Gigabit Ethernet Copper
	IEEE 802.3az Energy Efficient Ethernet

Performance

Switch Technology	Store and Forward Technology with Non-Blocking Switch Fabric
Number of MAC Address	4K
Packet Buffer Memory	1.5M bits
Broadcast Storm Protection	100,000 pps (packet per second)
QoS	VLAN Priority Tagging: 0/1: 2/3: 4/5: 6/7 = 1:2:4:8
Jumbo Frame	9216 Bytes
Transfer performance	10Base-T: 14,880pps, 100Base-TX: 148,800pps, 1000Base-TX: 1,488,100pps

Interface

Ethernet Port	8 x 10/100/1000Base-TX RJ45, Auto Negotiation
System LED	1 x Power: Green On
Ethernet Port LED	Link (Green On), Activity (Green Blinking) PoE power feeding: Amber on, PoE power not feeding: Off
Power input	4-Pin Removable Terminal Connector 3 Pin for Power Input (V+, V-, V+) 1 Pin for Ground

Power Requirement

Input Voltage	DP208: 48/54 VDC (46~57VDC, 50~57VDC suggested for IEEE802.3at), Redundant DP208-LV: 12VDC (12~57VDC) Redundant
Reverse Polarity Protect	Yes
Input Current	DP208: 1.93A@54V DP208-LV: 5.24A@12V, 5.04A@24V
Power Consumption	Max. 3.24W@54VDC, full traffic without PD loading, suggest to reserve 15% tolerance

PoE

Power forwarding mode	Alternative A
PoE Power Budget	Port: Max. 30W, 802.3at DP208: Up to 120W DP208-LV: Up to 60W@12VDC Input, 120W@24V~57VDC Input
PoE Mode	IEEE 802.3af/at

Mechanical

Installation	DIN Rail
Enclosure Material	DP208: Steel Metal DP208-LV: Steel Metal + Aluminum
Dimension	DP208: 100 (D) x 145 (H) x 40mm (W) / without DIN Rail Clip DP208-LV: 100 (D) x 145 (H) x 45mm (W) / without DIN Rail Clip
Ingress Protection	DP208: IP40 DP208-LV: IP30
Weight	~540g without package

Environmental

Operating Temperature & Humidity	-40°C~70°C , 0%~95% Non-Condensing
Storage Temperature	-40°C~80°C
MTBF	>200,000 hours
Warranty	5 years

Standard	
EMC	EN61000-6-2/EN61000-6-4 EN61000-4-2 ESD, EN61000-4-3 RS, EN61000-4-4 EFT, EN61000-4-5, EN61000-4-6 CS, EN61000-4-8 Magnetic Field
EMI	CISPR 22, FCC part 15B Class A



Ordering Information

Model Name	Description
DP208-LV	Industrial 8G Unmanaged PoE Switch, 12VDC(12~57VDC) Booster
DP208	Industrial 8G Unmanaged PoE Switch, 54V(50~57VDC) Input
	Package List
	1 x Product Unit
	1 x 4-pin Removable Terminal Connector
	1 x Attached Din Clip
	1 x Quick Installation Guide



Optional Accessory

Item	
MK-D1-2	Wall-mounting kit with 2 plates and 8 screws