

WoMaster

Quick Installation Guide

Industrial 8-port Unmanaged Ethernet Switch

DS108

www.womaster.eu

• Overview

DS108 Series are industrial unmanaged Ethernet switches that enabled to expand industrial network faster and cost-effectively. Where DS108 equipped with 8-port Fast Ethernet with 10/100Mbps speed and additionally for DS108-MM that provides two multi-mode fiber-optic ports while DS108-SS provides two single-mode fiber-optic ports. By using fiber-optics, it can prevent noise from interfering with system and supports high-speed (100 Mbps) and high-distance (up to 30 km) transmissions. DS108 Series has robust designs, assuring high reliability and stability in harsh environments.

Model Name	Description
DS108	Industrial 8-port Unmanaged Ethernet Switch
DS108-MM-SC-2	Industrial 8-port Unmanaged Ethernet Switch, multi-mode, 2km/1310nm, SC
DS108-MM-ST-2	Industrial 8-port Unmanaged Ethernet Switch, multi-mode, 2km/1310nm, ST
DS108-SS-SC-30	Industrial 8-port Unmanaged Ethernet Switch, single-mode, 30km/1310nm, SC
DS108-SS-ST-30	Industrial 8-port Unmanaged Ethernet Switch, single-mode, 30km/1310nm, ST

• Package Checklist

- 1 x Product Unit
- 1 x 4-pin Removable Terminal Connector
- 1 x Attached Din Clip
- 1 x Quick Installation Guide

Optional Accessory (for detailed information please refer to the Datasheet)

• Installation

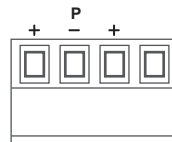
DIN Rail mount

To mount the switch on the DIN Rail track, insert the upper end of the DIN-Rail clip into the back of the DIN-Rail track from its upper side and lightly push the bottom of the DIN-Rail clip into the track. The DIN Rail should comply with DIN EN50022 standard. Using wrong DIN rail may cause unsafe installation.



Wiring the Grounding

For avoiding system damage by noise or electric shock, establish a direct connection by insert the grounding wire into the GND contact on the terminal block connector, then tighten the wire-clamp screws.

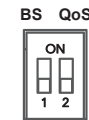


Wiring the Power Inputs

- 1) Insert the positive and negative wires into 3 pin V+, V- and V+ contact on the terminal block connector.
- 2) Tighten the wire-clamp screws.
- 3) Connect the power wires to suitable DC Switching type power supply. The input DC voltage should be in the range of 9.6VDC to 60VDC.

DIP Switch Setting

In addition, the DS108 Series switches have DIP switches for enabling or disabling broadcast storm protection, providing another level of data transmission quality for industrial applications. The table below shows how the DIP-switch pin number is assigned to broadcast storm protection and quality of service function.



DIP	BS	QoS
ON	[ON] Enable Broadcast Storm Protection Function	[ON] Enable Quality of Service Function
OFF	[OFF] Disable Broadcast Storm Protection Function	[OFF] Disable Quality of Service Function

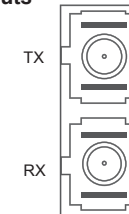
Fiber Ports (SC/ST)

DS108 Series switches are equipped with fiber ports. To connect the fiber port, remember to link the Tx (transmit) port to the Rx (receive) port of the receiving device, and the Rx (receive) port to the Tx (transmit) port of transmitting device.

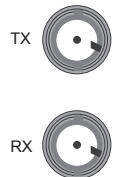
Warning: Be careful when connecting the fiber port, wrong connection will cause the fiber port not working properly.

The picture below shows the fiber ports SC and ST appearance.

SC-Ports Pinouts



ST-Ports Pinouts



• Appearance

DS108

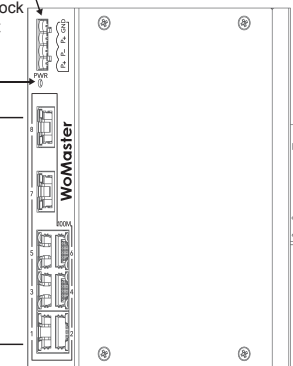
Power Connector

- 1 x 4-pin Terminal Block
- 3 pin for Power Input
- 1 pin for Grounding

System LED

- 1 x Power

8 x 10/100Base-TX



DIP Switch

- 1 x Broadcast Storm Protection
- 1 x QoS

DS108 MM/SS

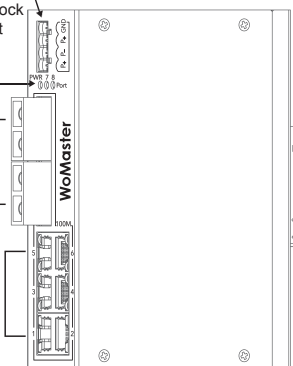
Power Connector

- 1 x 4-pin Terminal Block
- 3 pin for Power Input
- 1 pin for Grounding

System LED

- 1 x Power
- 2 x Fiber Port

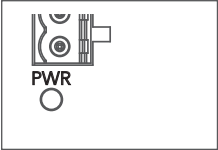
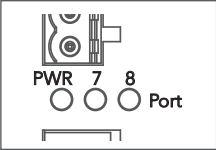
2 x 100BaseFX (SC/ST Connector)



DIP Switch

- 1 x Broadcast Storm Protection
- 1 x QoS

• LED Indication

DS108		
		
DS108-MM/SS		
		
LED	Status	Description
Power	Green On	DC-IN Power is On
	Off	No Power in DC-IN
Ethernet (Port 1-8)	Green On	Links established
	Green Blinking	Packets transmitting/receiving
	Green Off	Link is inactive
Fiber Port (Port 7-8) DS108-MM/SS	Green On	Links established
	Green Blinking	Packets transmitting/receiving
	Green Off	Link is inactive

• Safety Precautions

- Turn off DC power input source before connecting the DC Power supply module to the terminal block connectors. Do not turn-on the source of DC power module and make sure all connections were well established, then power on the DC source to powering the Switch device.
- Never install or work on/with the equipment or the cabling during the period of its lightning activity.
- The DIN Rail should comply with DIN EN50022 standard. Using wrong DIN rail may cause unsafe installation.

• Support

At WoMaster, you can use the online service forms to **request the support**. The submitted forms are stored in server for WoMaster team member to assign tasks and monitor the status of your service. Please feel free to write to **help@womaster.eu** if you encounter any problems.

• Warranty

5-year Global warranties are available for WoMaster products assuring our customers that the products shall remain free from defects in workmanship or materials and conform in all material respects to WoMaster specifications, or Purchaser's supplied and accepted specifications. The warranty is limited to the repair and/or replacement, at WoMaster' sole discretion, of the defective product during its warranty period. The customer must obtain a **Return Merchandise Authorization (RMA)** approval code prior to returning the defective Product to WoMaster for service. The customer agrees to prepay shipping charges, to use the original shipping container or equivalent, and to insure the Product or assume the risk of loss or damage in transit. Repaired or replaced products are warranted for ninety (90) days from the date of repair or replacement, or for the remainder of the original product's warranty period, whichever is longer.

• Disclaimer

WoMaster reserves the right to make changes to this QIG or to the product hardware at any time without notice. It is the user's responsibility to determine whether there have been any such updates or amendments herein. Defects, malfunctions, or failures of the warranted Product(s) caused by damage resulting from unforeseeable incidents (such as lightings, floods, fire, etc.), environmental and atmospheric disturbances, other external forces such as power line disturbances and surge, host computer malfunction and virus, incorrect power input, or incorrect cabling, incorrect grounding and damages caused by misuse, abuse and unauthorized alteration or repair are not warranted.