

WoMaster

Quick Installation Guide

Industrial DIN Rail PoE Switch DP310

Industrial DIN Rail Ethernet Switch DS310

www.womaster.eu

Overview

DP310 and DS310 are industrial 10-port L2 Managed PoE switches equipped with 8-port Fast Ethernet, both switches provide additional 2-port RJ45/SFP combo Gigabit Ethernet uplink, prioritized stream such as video and VoIP are also optimized. High speed uplink connection to higher level backbone switches with Ring network redundancy technology ensures the reliability of high-quality video transfer. For the best traffic control, management side features LACP, VLAN, QinQ, IGMP snooping, QoS, etc. DP310 is an IEEE 802.3af/at compliant PoE switch for enabling devices when power sources are not available. All of the 8 ports can deliver up to 30W power per port to the high-power requiring devices.

| | DP310 | DS310 |
|----------------|------------------------------------|----------|
| 10/100Base-TX | 8 | 8 |
| 100/1000Base-T | 2, Combo | 2, Combo |
| PoE Standard | IEEE 802.3af/at | - |
| Power input | 46~57VDC (50~57VDC for 802.3at) | 18~60VDC |

Package Checklist

- 1 x Product Unit (Without SFP transceiver)
- 1 x 8-pin Removable Terminal Connector
- 1 x Din Clip
- 1 x Quick Installation Guide

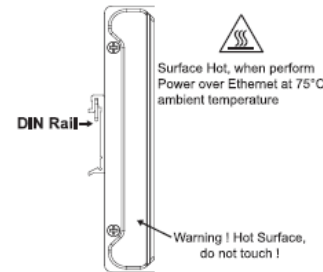
Optional Accessory (for detailed information please refer to the Datasheet):

- 100Mbps SFP Transceiver
- 1000Mbps SFP Transceiver
- RS232 Console Cable

Installation

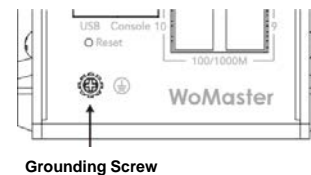
DIN Rail mount

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.



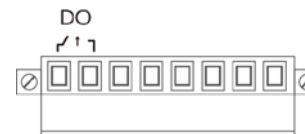
Grounding Screw

For avoiding system damage by noise or electric shock, establish a direct connection between the ground screw and the grounding surface prior to connecting devices.



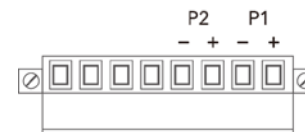
Wiring the Relay Output

The relay output of the 2-pin terminal block connector are used to detect user-configured events. The two wires attached to the fault contacts form a close circuit when a user-configured event is triggered. If a user-configured event does not occur, the fault circuit remains opened.



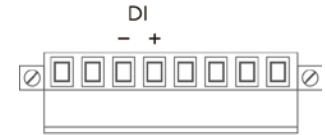
Wiring the Power Input

- 1) Insert the positive and negative wires into the V+ and V- contact on the terminal block connector.
- 2) Tighten screws when the wire is connected.
- 3) Connect the power wires to suitable DC Switching type power supply.



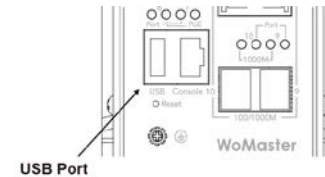
Wiring the Digital Input

To wire the DI on the Terminal block, loosen screws by screw driver on the terminal block connector, insert the positive and negative wires into the V+ and V- contact and then tighten screws after the DI wire is connected.



USB Port

Use the USB port in order to save or restore the configuration and upload the firmware upgrade file. For further configurations, please refer to User Manual.



Appearance

DP310

Integrated Power Connector

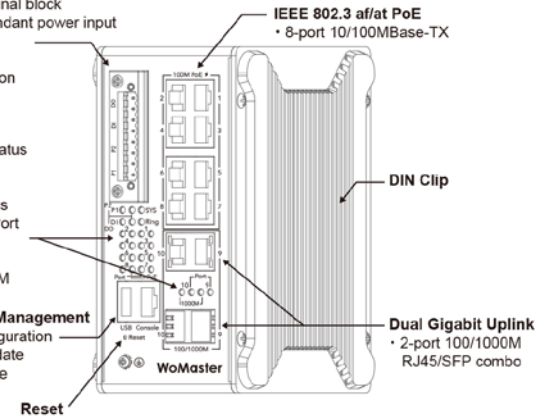
- 1 x 8-pin terminal block
- 4 pin for redundant power input
- 2 pin DI
- 2 pin DO
- Easy Installation

System LED

- 2 x Power
- 1 x System Status
- 1 x DO
- 1 x DI
- 1 x Ring Status
- 8 x Ethernet Port
- 8 x PoE
- 2 x SFP Port
- 2 x SFP 1000M

Easy System Management

- USB for Configuration /Firmware update
- RS232 console



DS310

Integrated Power Connector

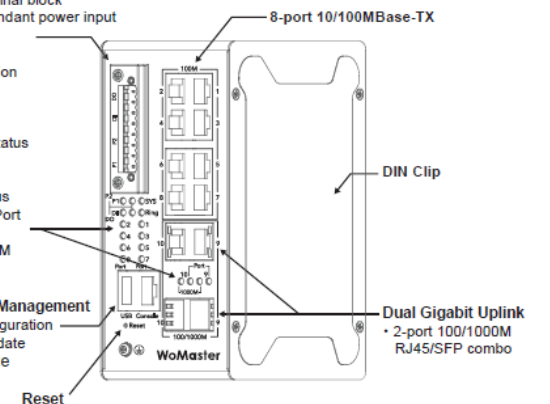
- 1 x 8-pin terminal block
- 4 pin for redundant power input
- 2 pin DI
- 2 pin DO
- Easy Installation

System LED

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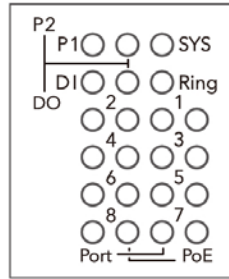
Easy System Management

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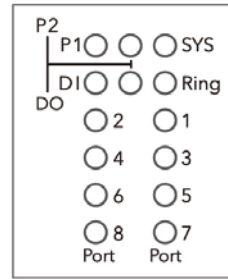


• LED Indication

DP310



DS310



| LED | Status | Description |
|---|----------------|---|
| PWR (P1/P2) | Green On | DC-IN Power is On |
| | Off | No Power in DC-IN |
| System LED | Green On | Ready |
| | Green Blinking | Firmware Updating |
| | Off | Not Ready |
| Ring LED | Green On | Not Owner/Normal |
| | Green Blinking | Owner/Normal |
| | Amber On | Abnormal |
| | Amber Blinking | Ring Port Fail (Local SF) |
| | Off | Ring is disabled |
| Alarm (DO) | Red On | Any failures in port link, ping, power, DO and DI State by SW control |
| | Off | No failure occurs |
| Digital Input (DI) | Green On | Detected Digital Input |
| | Off | No Digital Input |
| PoE LED 1~8 (DP310) | Amber On | PoE delivering in progress |
| | Amber Blinking | PoE is enabled but no PD is connected |
| | Amber Off | PoE is disabled |
| Fast Ethernet (Port1-8) | Green On | Links established |
| | Green Blinking | Packets transmitting/receiving |
| | Green Off | Link is inactive |
| Gigabit Ethernet (Port 9~10) / SFP Port | Green On | Links established |
| | Green Blinking | Packets transmitting/receiving |
| | Green Off | Link is inactive |
| | Amber On | Link Speed 1000M |
| | Amber Off | Link speed 100M |

• 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.
- Do make sure that models connect to the corresponding supply voltage. The device is to be supplied by Limited Power Supply. The relay contact supports 0.5 A current, DC 24V.
- The switch must be installed at Restricted Access Locations, such as control room/control cabinet. The switch is designed for in building installation only and is not intended to be connected to exposed (outside plant) networks. Never install or work on/with the equipment or the cabling during the period of its lightning activity.
- **Do not touch the surface of the switch while it is performing PoE function!**

• Management

This device supports both in-band and out-of-band network management. The user can either configure the device through the user friendly Web/HTTPS management or remotely manage the device through the network by console management or Telnet/SSH.

1. Preparation for **Web management**: First of all, verify that device is properly installed in the network and that every PC of this network can access the switch through the web browser (Google Chrome, Internet Explorer, Mozilla Firefox).
 - Type http://IP_address in your browser (the default IP address is <http://192.168.10.1/>)
 - Key in the user name and password in login screen. The default user name and password is **admin**.
 - After you click OK, the Welcome page of the web-based management interface will appear.
 - On the left side you can see the list of software features, on the right side – available settings.
- ◆ To link with the device, please make sure that the IP Address of the PC is located in the same subnet (**192.168.10.x**).
2. Preparation for **Console management (using RS232 Port)**:
 - Connect console cable between your PC and the device.
 - Start -> Program -> Accessories -> Communication -> Hyper Terminal.
 - Give a name to a new console connection.
 - Choose the COM name and select correct serial settings: Baud Rate: 115200 / Parity: None / Data Bit: 8 / Stop Bit: 1
 - After connected, type the username **admin** and password **admin** to login.
 - Follow the User Manual to configure the software features.
3. Preparation for **Telnet/SSH management**: You can connect to the device by Telnet and the command lines are the same as what you see by console management. Below are the steps to open Telnet connection to the switch.

- Start -> Open Command prompt ->Enter
- Type the Telnet 192.168.10.1 (or the IP address of the switch). And then press Enter.

SSH (Secure Shell)

The device also supports SSH console. You can remotely connect to the switch to access command line interface. The SSH connection can secure all the configuration commands you sent to the switch. SSH is a client/server architecture while the Switch is the SSH server. When you want to make SSH connection with the switch, you should download the SSH client tool first.

SSH Client

There are many free, sharewares, trials or charged SSH clients you can find on the internet.

◆ For further feature configurations, please refer to User Manual.

• 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.