



Industrial

Ethernet PoE Switch

user's manual

DP541

Product Introduction

The DP541 is a hardened 4-port 10/100Mbps with IEEE802.3af/at PoE+ Switch, plus 1-port uplink for 10/100Mbps. All the 4 PoE ports may support up to 30W per port basis.. The DP541 also features 250meter Ethernet extension, VLAN functions, and PoE dog function by setting 4 corresponding dip switches. The 250meter cable extension is for the Ethernet link at 10Mbps, and the VLAN is to set on Virtual LAN from each of the port1-4 to port 5. The PoE dog function may reactivate PoE when the connected PD was hung.

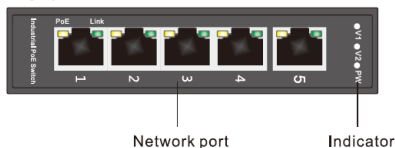
Product characteristics

- Lightning protection up to 6KV
- ESD static protection up to 8KV
- Support industrial grade working temperature: -40℃~80℃
- Support industrial grade working humidity: 10%~90% RH without condensation
- Advanced PoE dog function

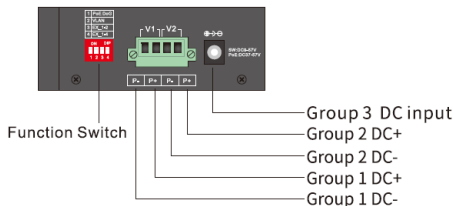
Product display and description

DP541, 4*10/100M PoE + 1*10/100M Uplink RJ45

Front



Side



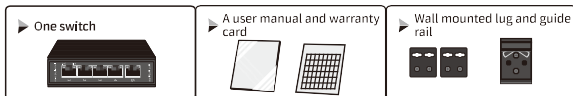
LED Indicator Definitions

Front Indicators	Status	Descriptions
Power Indicator: PWR	On	Power on
	Off	Power off
Main power indicator: V1	On	Main power on
	Off	Main power off
Slave power indicator: V2	On	Slave power on
	Off	Slave power off
Port 1-4 Data/PoE indicators	Green on/flash	Data link/act at 10/100Mbps speed
	Orange on	PoE is on
Port 5 Data Indicators	Green on/flash	Data link/act at 10/100Mbps speed
	Orange on/flash	Data link/act at 10/100Mbps speed

Dip Switch Function Definitions

DS Number	Functions
1	Enable PoE Watchdog function
2	Enable each of Port 1~4 to communicate uplink Port 5 only (VLAN)
3	Set Port 1~2 link at 10Mbps for 250meter cable extension
4	Set Port 1~4 link at 10Mbps for 250meter cable extension

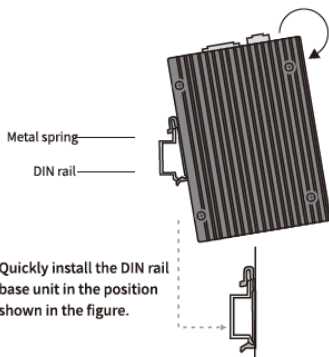
Product supporting list



DIN rail and wall mounting

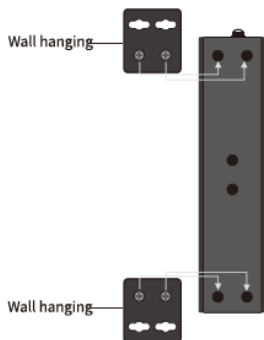
DIN rail mounting

① Insert the top of the DIN rail into the notch under the rigid metal spring.

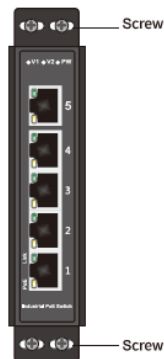


Wall mounted installation

① Install the wall mounted panel on the switch



② Fix the switch vertically to the wall with screws



Product parameters

Model	DP541
Product Name	5-Port Fast Ethernet Industrial PoE Switch
Network Ports	Port 1~4: 10/100M RJ45 PoE Ports Port 5: 10/100M RJ45 Uplink Network Data Port
PoE Ports	Port 1-4: Support IEEE 802.3af/at with a maximum of 30W per port basis
PoE Port Pin Polarity	Pin 1,2 (+), Pin3,6 (-)
PoE Dog Function	Support PoE reset if the connected PD was hung
Bandwidth	1Gbps
Packet Forwarding	0.74 Mpps
MAC Address Table	1K byte
Cache Buffer	768K byte
Transmission Distance	- 10 Mbps: Cat3, 4, 5e UTP (\leq 250 meters) - 100 Mbps: Cat5e or later UTP (100 meters)
LED Indicators	- PW: Power Indicator (Green) - V1: Main Power Indicator (Green) - V2: Auxiliary Power Indicator (Green) - PoE Ports: Orange for PoE Indicator, Green for Data Link Indicator - Uplink Port: Data Link Indicator (Green/Orange)
Power Supply	- 3 Independent Power Inputs - Switch: DC 9-57V, - PoE: DC 37-57V
Operating Temperature / Humidity	- Temperature: -40 to +80°C - Humidity: 10% to 90% RH (non-condensing)
Storage Temperature / Humidity	- Temperature: -40 to +85°C - Humidity: 5% to 95% RH (non-condensing)
Product/Packaging Dimensions (L x W x H)	- Product: 105mm x 90mm x 36mm - Packaging: 200mm x 130mm x 40mm
Net Weight / Gross Weight	- Net Weight: 0.5 kg - Gross Weight: 0.6 kg
Lightning/Surge Protection Level	- 6KV 8/20us - IP30
Installation Method	- DIN Rail Mount (Wall-mount ears included)
Certifications	- CE-EMC EN55032 - CE-LVD EN62368 - FCC Part 15 Class B - RoHS
Warranty Period	2 years (excluding accessories)