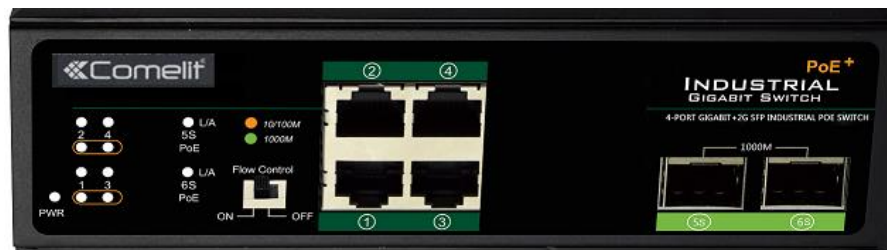


SWITCH, 4 (PoE) GIGABIT PORTS + 2 SFP SLOTS ART. IPSWP06N02A



Please read this manual thoroughly before use and keep it for future reference

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Package contents

Check the contents of your package:

- Switch x 1
- User manual x 1

If any part is lost and damaged, please contact your dealer.

Introduction

The device have 4 (PoE) RJ45 ports + 2 SFP slots 10/100/1000Mbit/s. The PoE ports (1-4) automatically detect and power the IEEE 802.3af/at compliant Powered Devices (PD). The power is transmitted with the data in one single cable. This product is designed for severe industrial environment and support DIN rail installation. Port surge protection is up to 6KV and the working temperature range is -40°C ~ 75 °C.

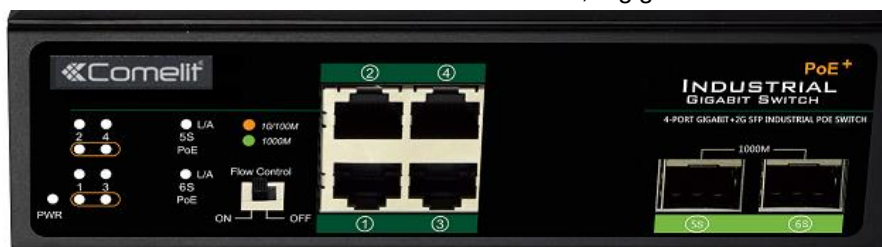
Product features

- Surge protection: up to 6KV
- Electrostatic protection: contact 8KV, air 10KV
- Operating temperature: -40°C ~ 75 °C
- Fanless, high energy metal heat conduction through the case
- DIN rail installation
- Industrial-scale components
- MTBF: >100000 hours
- Support IEEE802.3at and IEEE802.3af (PD) standard
- Output power up to 32 W
- Support IEEE802.3x full-duplex flow control and Backpressure half duplex flow control
- Support IEEE 802.3az

Hardware description

Front Panel

The front panel consists of 4 x 10/100/1000Mbit/s Ethernet RJ45 Ports, 2 gigabit SFP slots and the related leds.



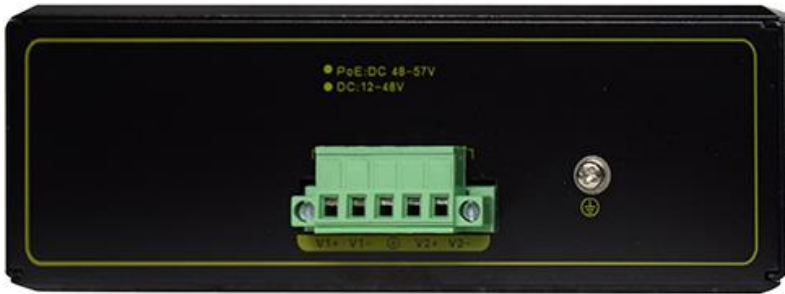
LED indications

LED	Color	Function
PWR	Green	OFF: no power supply. ON: power supply connected.
LNK/ACT	Green	OFF: no device connected to the corresponding port. ON: the link through the port is successfully established at 1000Mbit/s. Blink: the switch is sending or receiving data.
	Orange	OFF: no device connected to the corresponding port.

		ON: the link through the port is successfully established at 10/100Mbit/s. Blink: the switch is sending or receiving data.
PoE	Orange	OFF: no PoE (PD) connected. ON: PD successfully connected to the port. Blink: abnormal PoE supply.

Rear panel

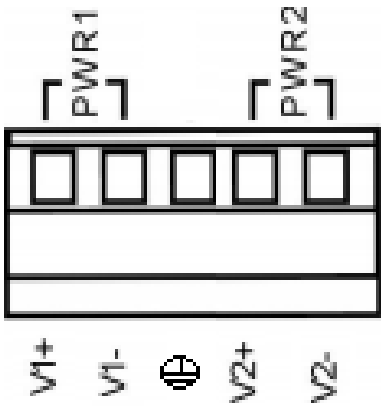
The rear panel have the terminals to connect the DC power input (standard redundant power backup 5 pinhole terminals).



Power input

In the rear panel there are 5 industrial power input terminals (48-57VDC) labeled V1-, V1+ (PWR1), V2- and V2+ (PWR2), 2 DC power inputs with redundant functions. They can be used alone or can be connected to two independent DC power supply at the same time to avoid a power system failure and improves the network's reliability.

⏏ : connect to the ground to prevent lightning strike.



Installation

This part describes how to install the switch and make the connections. Please follow the instructions to avoid damages and security problems.

- Before cleaning the switch, unplug the power supply. Do not clean the switch with wet cloth or liquid
- Do not place the switch near water or any damp area. Prevent water or moisture from entering into the chassis
- Do not place the switch on an unstable place or desk. The switch might be damaged severely in case of fall
- Ensure proper ventilation of the equipment and keep the ventilation vents free of obstructions
- Make sure that the operating voltage is correct
- Do not open the chassis while the switch is powered to avoid electrical shocks.

DIN-rail installation

Use the 45mm standard DIN rail type. This product has supplied installation fittings.



Turn ON the switch

- When powered, the switch start and reset automatically

Specifications

Supported standards	IEEE802.3, IEEE802.3u, IEEE802.3az, IEEE802.3x, IEEE802.3af, IEEE802.3at, IEEE 802.3ab, IEEE 802.3z
Network cables	10BASE-T: UTP category 3,4,5 cable (≤100m) 100BASE-TX: UTP category 5 cable (≤100m) 1000BASE-T: UTP category 5e, 5 cable (≤100m) 1000BASE-TX : Gigabit SFP optical RJ45 electrical module 1000BASE-SX : Gigabit SFP multimode (850nm, LC, DDM) 1000BASE-LX : Gigabit SFP mode (1310nm, LC, DDM) 1000BASE-ZX: Gigabit SFP single mode (1550nm, LC, DDM)
MAC address table	4K, auto-learning, auto-aging
Transfer mode	Store-and-Forward
Jumbo frame	9216 Byte
Packet buffer	1.5Mbit
Switching capacity	12Gbit/s
Frame forward rate	8.9Mpps
Power supply	48÷57VDC
Dimensions (L x H x D)	165 x 54 x 147mm
Fan	Fanless
PoE ports	1~4
PoE power on RJ45	Mode A: pin 1/2 (+), pin 3/6 (-)
PoE power budget	32W (max)
Temperature	Operating: -40°C ~ 75 °C (-40 °F ~167°F) Storage: -40 °C ~ 80°C (-40 °F ~176°F)
Humidity	Operating: 10% ~ 90% non-condensing Storage: 5% ~ 90% non-condensing
Surge protection	Differential mode: ±4KV, Common mode: ±6KV
MTBF	>100000 hours
Electrostatic protection	Contact: 8KV, air: 10KV