USER GUIDE

PoE & Optical Transmission ||||||||||||||

1-8-port 10/100M Industrial PoE Switch

ONV

Packing List

Please kindly check the following items:

➤ 1 x Industrial PoE switch
➤ Power Kits (Need to order it separately)
➤ Mounting Kits
➤ 1x User Guide/ Certificates/Warranty Card

⚠ Note

If any shortage or damage found, please contact us in time.
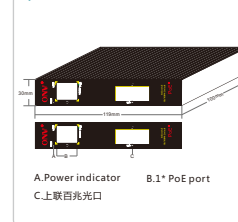
Product Overview

The series is a full gigabit industrial POE switch independent development by ONV. It has 1/8*10/100/1000M RJ45 ports ,1-1/8 ports support IEEE 802.3af/at PoE standard,single port PoE power up to 30W, the maximum PoE output power of the whole machine is 60W (at-120W). As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, webcam, industrial sensor through network cable, meet the network environment that needs high-density PoE power supply, and is suitable for industrial scenes such as intelligent transportation, rail transit, electric power, mining, metallurgy and green energy construction. Establish a cost-effective and stable communication network.
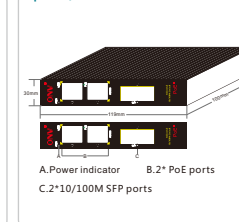
Feature

➤ All series supports "Ethernet port + SFP port" combination, which enables users to flexibly build networking to meet the needs of various scenarios.
➤ Support non-blocking wire speed forwarding .
➤ Support full duplex based on IEEE802.3x and half duplex based on backpressure .
➤ Support POE network management function, through the network management configuration, POE port power allocation, priority setting, port power status view, time scheduling, etc.
➤ The user can easily understand the working status of the device through the power indicator (PWR), port status
➤ The host has low power consumption, no fan and silent design, aluminum alloy metal casing, IP40 protection, excellent heat dissipation, ensuring stable operation of the product.
➤ Support dual power supply redundant access, support anti-reverse protection, 48~57V ultra-wide voltage input, high reliability, 6KV port lightning protection.
➤ -40℃—80℃ wide operating temperature, adapt to a variety of harsh environments, support DIN rail mounting .
➤ big cache. Military-grade chip, comprehensive third-party inspection mechanism verification,5-year warranty, stable and reliable quality.
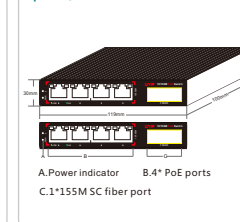
Technical Structure and Port Description

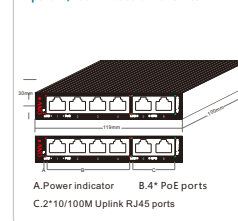**1-port 10/100M Industrial PoE Switch**

A.Power indicator   B.1* PoE port
C.上联百兆光口

2-port 10/100M Industrial PoE Switch

A.Power indicator   B.2* PoE ports
C.2*10/100M SFP ports

4-port 10/100M Industrial PoE Switch

A.Power indicator   B.4* PoE ports
C.1*155M SC fiber port

4-port 10/100M Industrial PoE Switch

A.Power indicator   B.4* PoE ports
C.2*10/100M Uplink RJ45 ports

4-port 10/100M Industrial PoE Switch

A.Power indicator   B.4* PoE ports
C.2*10/100M SFP ports

8-port 10/100M Industrial PoE Switch

A.Power indicator   B.8* PoE ports
C.TP/SFP Combo port

8-port 10/100M Industrial PoE Switch

A.4* PoE ports
B.2*10/100M Uplink RJ45 ports
C.2*10/100M SFP ports
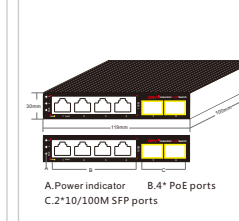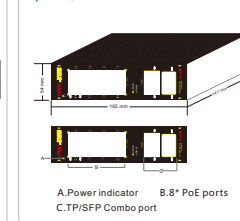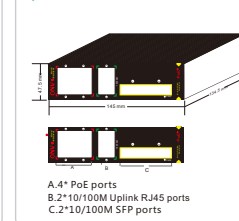
Panel Description

| Indicator	Status	Description
Power Indicator: PWR	Green LED ON	Normal
	Green LED OFF	Power OFF
PoE Indicator: PoE	Green LED ON	Connected PD device, PoE working properly
	Green LED Blink	Short circuit or current overload
	Green LED OFF	No connected PD or PoE power OFF
Link Indicator: Link	Yellow LED ON	Link is OK
	Yellow LED Blink	Link is OK and data is being sent and received.
	Yellow LED OFF	Link failure and No data transmission
SFP indicator : F/L/A	Green LED ON	Link is OK
	Green LED Blink	Link is OK and data is being sent and received.
	Green LED OFF	Link failure and No data transmission

⚠ **Note :** Please confirm that the all PoE ports of PD devices are complying with IEEE802.3af/at standard.

Power Industrial Terminals: 48 (46 ~57V)VDC, More than 50VDC is recommended when used PoE+ output, please use AC100~240V, 50/60Hz power supply;

PoE Port: The PoE ports support PoE function, which can transmit data and power simultaneously if connected matching device. The LED lights on the front panel can show working status of each port.

Ethernet Port: Besides PoE ports, other ports are normal self-sensing Ethernet RJ45 ports which support Auto MDI/MDIX, plug and play. The LED lights on the front panel can show working status of each port.

Installation Guide

Card Rail
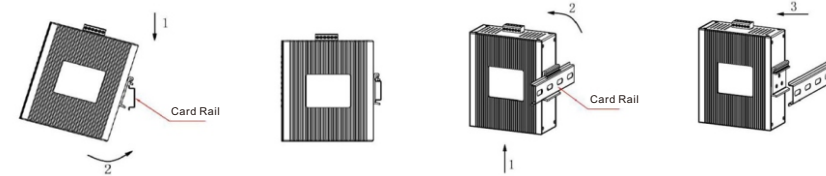
⚠ **Note**

1.Please do not put heavy products on the POE switch, and please ensure good ventilation environment for the POE switch.
2.Please cut off the power first before plugging the power adapter.

Power

Connect the power cable, plug it into power socket, turn on the power, then the switch will automatically initialize, and LED lights status will display as following:
1 Except the POE port lights, all the other lights will go through the process of "on-off-on-off", which means the system restoration is successful.
2 Power LED remains lit.

Application Connection Diagram
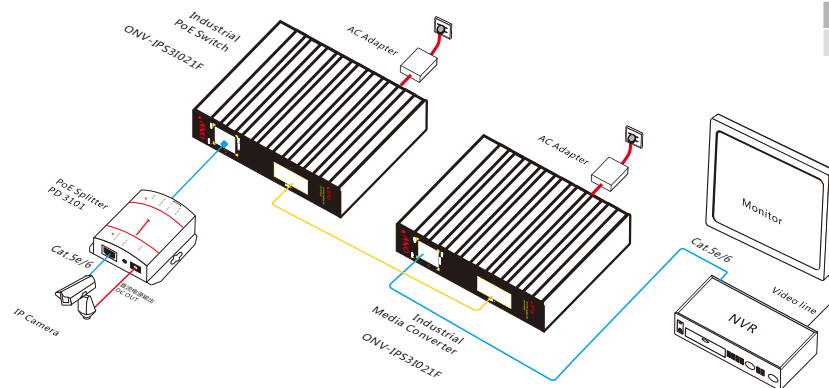
Models Description

ONV-IPS31021PF(at): Unmanaged industrial PoE fiber switch with 1*10/100M RJ45 port and 1*155M uplink SC port, The Ethernet port can support IEEE802.3af/at POE standard, default configuration SC port 1310mm /20km single-mode dual fiber optical module, total power less than 18W(at-36W). Support DC dual power supply input (Phoenix terminal). Support DIN rail mounting. (Optional models for optical modules: single-mode single fiber 1310nm, single-mode single fiber 1550nm, multimode dual fiber 850nm, multimode dual fiber 1310nm)

ONV-IPS31032PF(at): Unmanaged industrial PoE fiber switch with 2*10/100M RJ45 ports and 1*155M uplink SC port, Port 1-2 can support IEEE802.3af/at POE standard, default configuration SC port 1310mm /20km single-mode dual fiber optical module, total power less than 36W(at-60W). Support DC dual power supply input (Phoenix terminal). Support DIN rail mounting. (Optional models for optical modules: single-mode single fiber 1310nm, single-mode single fiber 1550nm, multimode dual fiber 850nm, multimode dual fiber 1310nm)

ONV-IPS31004PF(at): Unmanaged industrial PoE fiber switch with 4*10/100M RJ45 ports and 1*155M uplink SC port, Port 1-4 can support IEEE802.3af/at POE standard, default configuration SC port 1310mm /20km single-mode dual fiber optical module, total power less than 60W (at-120W). Support DC dual power supply input (Phoenix terminal). Support DIN rail mounting. (Optional models for optical modules: single-mode single fiber 1310nm, single-mode single fiber 1550nm, multimode dual fiber 850nm, multimode dual fiber 1310nm)

ONV-IPS31064P(at): Unmanaged industrial PoE switch with 6*10/100M RJ45 ports, Port 1-4 can support IEEE802.3af/at POE standard,total power less than 60W(at-120W). Support DC dual power supply input (Phoenix terminal). Support DIN rail mounting.

ONV-IPS31064PF(at): Unmanaged industrial PoE fiber switch with 4*10/100M RJ45 ports and 2*155M uplink SC ports, Port 1-4 can support IEEE802.3af/at POE standard, default configuration SC port 1310mm /20km single-mode dual fiber optical module, total power less than 60W (at-120W). Support DC dual power supply input (Phoenix terminal). Support DIN rail mounting.

ONV-IPS31084PF(at): Unmanaged industrial PoE fiber switch with 6*10/100M RJ45 ports and 2*155M uplink SC ports, Port 1-4 can support IEEE802.3af/at POE standard, default configuration SC port 1310mm /20km single-mode dual fiber optical module, total power less than 60W (at-120W). Support DC dual power supply input (Phoenix terminal). Support DIN rail mounting. (Optional models for optical modules: single-mode single fiber 1310nm, single-mode single fiber 1550nm, multimode dual fiber 850nm, multimode dual fiber 1310nm)

ONV-IPS31108PFB(at): Unmanaged industrial PoE fiber switch with 8*10/100M RJ45 ports and 2*10/100/1000M uplink RJ45 port and 2*1000M uplink SFP slot ports(combo port), Port 1-8 can support IEEE802.3af/at POE standard, total power less than 120W(at-240W). Support DC dual power supply input (Phoenix terminal). Support DIN rail mounting.