

USER GUIDE

PoE & Optical Transmission

16-24-port Gigabit Managed Industrial PoE Switch Series

ONV
Optical Transmission

Statement

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Packing List

Please kindly check the following items:

- ▶ 1 x PoE switch
- ▶ Power Cable, Network Management Power Line
- ▶ Mounting Kits
- ▶ 1x User Guide/ Certificates/Warranty Card

Note

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

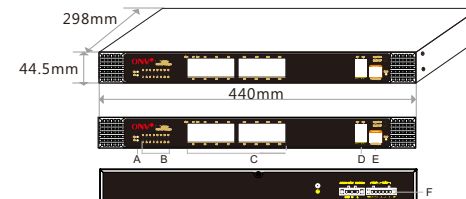
Product Overview

The series is L2+ full gigabit managed industrial PoE fiber switch independently developed by ONV. It has 16/24*10/100/1000Base-T RJ45 ports and 4*100/1000Base-X uplink SFP fiber slot ports. Port 1-24 can support IEEE 802.3af/at PoE standard. single port PoE power up to 30W and the maximum PoE output power of the host is 250W/400W. 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, web camera, VoIP phone, industrial sensor, visual intelligent building intercom through the network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for hotels, campuses, parks, shopping malls, scenic spots, hospitals, banks, and small and medium-sized enterprises.

Features

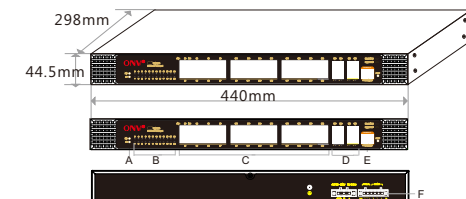
- ▶ A combination of Gigabit Ethernet port and Gigabit SFP port to meet the networking requirements of various scenarios.
- ▶ Support non-blocking wire speed forwarding
- ▶ Support full duplex based on IEEE802.3x and half duplex based on Backpressure
- ▶ 16/24*10/100/1000Base-T RJ45 ports can support POE power supply to meet the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- ▶ IEEE 802.3af/at PoE standard, without damaging non-PoE devices.
- ▶ Priority system for PoE port, it will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.
- ▶ PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.
- ▶ IEEE802.1Q VLAN, flexible VLAN division, Voice VLAN, and QinQ configuration.
- ▶ QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including EQU, SP, WRR & SP+WRR.
- ▶ ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.

Technical Structure and Port Description



A. Working indicator
C. 16* PoE Ports
E. Control Port

B. PoE Working indicator
D. 4* Gigabit SFP Ports
F. AC/DC dual input port



A. Working indicator
C. 24* PoE Ports
E. Control Port

B. PoE Working indicator
D. 4* Gigabit SFP Ports
F. AC/DC dual input port

Panel Description

Indicator	Status	Description
Power Indicator: PWR	Yellow LED ON	Normal
	Yellow LED OFF	Power OFF
System Indicator: SYS	Yellow LED Blink	System working properly
	Yellow LED ON/OFF	System working NOT properly
PoE Indicator: PoE	Green LED ON	Connected PD device, working properly
	Green LED Blink	Short circuit or current overload
	Green LED OFF	No connected PD or power OFF
	Yellow LED ON	10/100/1000M corresponding port has data transmission
Link/ACT Indicator	Yellow LED Blink	10/100/1000M port connected & data send/receive properly
	Yellow LED OFF	No connection
	Green LED ON	Corresponding port has data transmission
SFP Indicator	Green LED Blink	Connect correctly & data send/receive properly
	Green LED OFF	No connection
	LED ON	Working at 10/100/1000M
Speed Indicator: SPD	LED ON	Working at 10/100/1000M
	LED OFF	Working at 100/1000M

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

Power Industrial Terminals: 48 VDC (46 ~57VDC), dual redundancy power input, 6-pin 5.08mm-gap plug-in terminal (More than 50VDC recommended when used PoE+ output),

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

Please install to the supported devices.

Installation

Please confirm the following things before installation:

1. If the POE port meets the power requirement of the connecting devices.
2. If the POE standard requirement and power supply matches with the power receiving device
3. If the output power of the matched power adapter is compatible with the specification in the label of the POE switch

Please install the POE switch according to the following steps:

1. Put the PoE switch on the surface of a large and stable table, or professional industrial installation rank mount.
2. Connect Positive, Minus and Earth terminals as indicators on the power adapter.
3. Connect the network devices to the POE switch port though network cable.

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

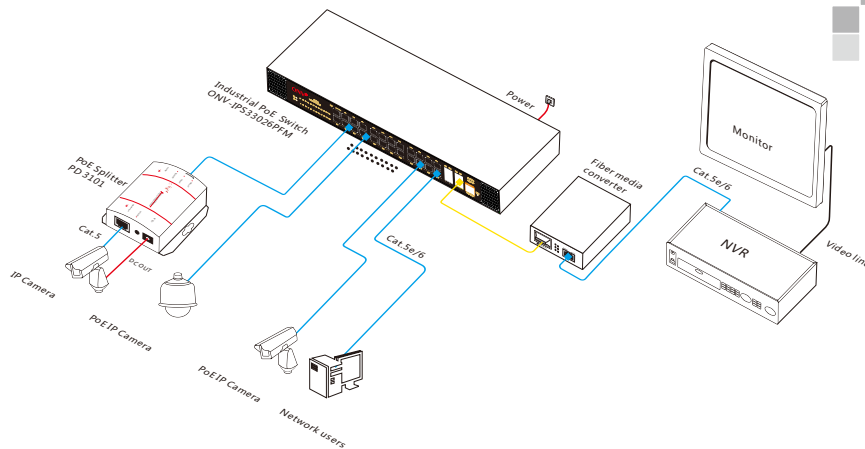
Connect the power cable, plug it into power socket, turn on the power, then the switch will automatically initialize, and LED lights status will display as following:

- 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.
- 3 System indicator blink.

Note

If initialization is inconsistent with the above, please check the power.

Application Connection Diagram



Models Description

ONV-IPS33018PFM(at) : L2+ managed industrial PoE fiber switch with 16* 10/100/1000M RJ45 ports and 2*100/1000M SFP fiber slot ports, Port 1-16 can support IEEE 802.3af/at PoE standard, Built-in 250W(at400) power supply.

ONV-IPS33026PFM(at) : L2+ managed industrial PoE fiber switch with 24* 10/100/1000M RJ45 ports and 4*100/1000M uplink SFP fiber slot ports. Port 1-24 can support IEEE 802.3af/at PoE standard, Built-in 400W(at600W) power supply.

ONV-IPS33018PFM-2AC : L2+ managed industrial PoE fiber switch with 16* 10/100/1000M RJ45 ports and 2*100/1000M SFP fiber slot ports, Port 1-16 can support IEEE 802.3af/at PoE standard, Built-in 2x250W power supply.

ONV-IPS33026PFM-2AC : L2+ managed industrial PoE fiber switch with 24* 10/100/1000M RJ45 ports and 4*100/1000M uplink SFP fiber slot ports. Port 1-24 can support IEEE 802.3af/at PoE standard, Built-in 2x400W power supply.

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