

USER GUIDE

PoE & Optical Transmission

ONV-IPS31108PFB

ONV

Statement

Copyright @ 2002-2013 Optical Network Video Technologies (Shenzhen) Co., Ltd
All Rights Reserved

This document contains proprietary information that is protected by copyright. No part of this document may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language, in any form or by any means, electronic, mechanical, magnetic, optical, chemical, manual or otherwise without the prior written permission of Optical Network Video Technologies (Shenzhen) Co., Ltd.

ONV[®] is the registered trademark of Optical Network Video Technologies (Shenzhen) Co., Ltd. The information and product specifications within this document are subject to change at any time, without notice and without obligation to notify any person of such change.

Packing List

Please kindly check the following items:

- ▶ 1 xPoE switch
- ▶ 1x User Guide/ Certificates/Warranty Card

⚠ Note

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

Product overview

Product Introduction

ONV-IPS31108PFB PoE switch features with 8x PoE Ethernet ports that compatible with 10/100BaseT(X), 802.3af (PoE) and 802.3at(PoE+) + 2x Gigabit combo port. The power supply of single PoE port can be up to 30W. The terminal equipment such as weather-proof IP camera, high performance wireless AP and industrial IP telephony. Highly flexible, the transfer data can be up to 120Km from SFP fiber port to control centering. Capable of high anti-electromagnetic interference.

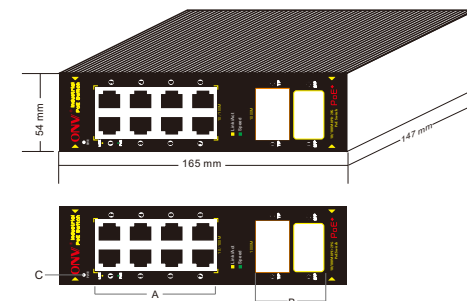
⚠ Note

The product 'Switch' mentioned in the manual, if without a special request, it is referring to industrial ONV-IPS31108PF PoE switch, PoE switch in short in below.

Feature

- ▶ Comply to IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3x, IEEE 802.1D, IEEE 802.3at, IEEE 802.3af, IEEE 802.1Q, IEEE 802.1p, IEEE 802.1x, IEEE 802.1W, SNMP, IGMP standards;
- ▶ 10/ 100M, 10/ 100/ 1000M self-sensing RJ45 port, support power supply function;
- ▶ All ports support auto-flip (Auto MDI/MDIX);
- ▶ Each PoE port can provide power up to 15.4W (af) or 30W (at);
- ▶ Supply power for powered devices compatible with IEEE802.3af/at;
- ▶ Support IEEE802.3x full duplex flow control and duplex backpressure flow control;
- ▶ 8.8G backplane bandwidth, 2.75Mb forwarding memory;
- ▶ 4K MAC address table;
- ▶ Its 3KV network port surge protection can adapt to harsh outdoor environment;
- ▶ Under the temperature of -40 ~ 80 °C, working at a full load 240W

Technical Structure and Port Description



A. PoE Port B. Uplink Gigabit TP/SFP Combo Port C. PWR LED Indicator

Indicator description:

Indicator	Status	Description
Power Indicator: PWR	Green LED ON	Normal
	OFF	Power OFF
PoE Indicator: PoE	Green LED ON	Connected PD Device, working properly
	Green LED Blink	Short circuit or current overload
	OFF	No Connected PD or Power OFF
100M Indicator: Link	Yellow LED Blink	Data transmission properly
	Yellow LED ON	Connected with 10Mbps or 100Mbps network device
	OFF	No connected PD
Gigabit Indicator: Link	Green LED Blink	Data transmission properly
	Green LED ON	Connected with 1000Mbps network device
	OFF	No connected PD

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

Power Industrial Terminals: 48 (46~57V)VDC, dual redundancy (More than 50VDC 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: beside PoE port, other ports are Ethernet RJ45 port, and all RJ45 port 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 with the supporting 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.
2. Plug the power adapter into the power connector, and then connect the power outlet through the power cord.
3. Connect the network devices to the POE switch port through 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

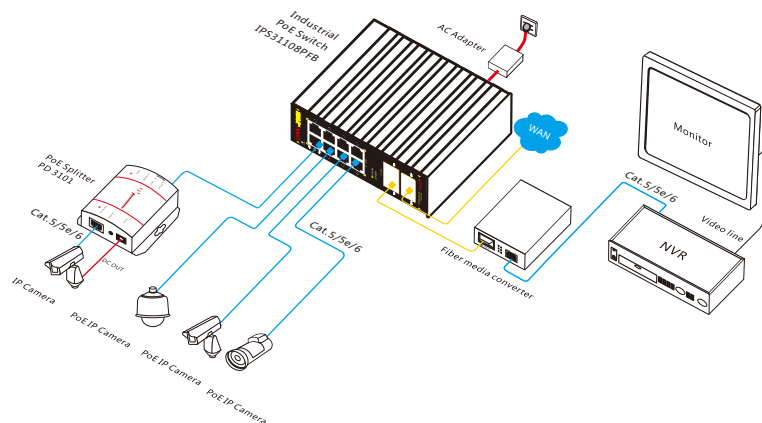
Connect the power cable, plug it into power socket, turn on the power, then the switch will automatically initialize, and LED lights status will display as following:

1. Except the POE port lights, all the other lights will go through the process of "on-off-on-off", which means the initialization is successful.
2. Power LED remains lit.

⚠ Note

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

Connection Diagram



Model Descriptions and Installation

ONV-IPS31108PFB: 8x 10/100M ports +2x Uplink Gigabit TP/SFP Combo Port PoE switch, 1-8 port supports PoE, IEEE 802.3af/at, Max PoE power of each port ups to 30W

Tel:+86-755-33376606 Fax:+86-755-33376608 Email: onv@onv.com.cn

Address: Room 1003, Block D , Terra building , Chegongmiao, Futian district ,Shenzhen ,China

Factory address: No 4-6, A building, SenYuTai S&T park, Longhua road, BaoAn district, Shenzhen, China

www.onvcom.com