

DIREKTRONIK

Dataprodukter utöver det vanliga

User Guide

Direktronik Connect Omanagerad 5xPoE




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Packing List

When using the Switch for the first time, carefully open the packing box. The packing box should contain the following items:

- Switch *1
- User Manual *1
- Power Cord *1

 **Note:** Precision devices are built in the device, please handle them carefully to avoid violent vibration, which may affect the performance of the device. If you find that the equipment is damaged or any parts are lost in the process of transportation, please inform us, we will give you a proper solution as soon as possible.

Chapter 1 Product Introduction

1.1 Product Overview

20117387 PoE Switch independently developed by our company. It provides 5*10/100/1000Mbps adaptive RJ45 ports, each RJ45 port supports MDI/MDIX auto-flip and wire-speed forwarding function. 1-4 ports support PoE power supply, PoE port can automatically detect PD devices and supply power to PD devices conforming to IEEE 802.3at/af standard, which can be used as Power over Ethernet device and can automatically detect Identify powered devices that meet the standard and power them through the network cable. Use store-and-forward technology combined with dynamic memory allocation to ensure that bandwidth is effectively allocated to each port.

Chapter 2 Product Appearance Description

2.1 Front panel

The front panel consists of 5*10/100/1000Mbps adaptive RJ45 ports and related indicators, as shown in the following figure:

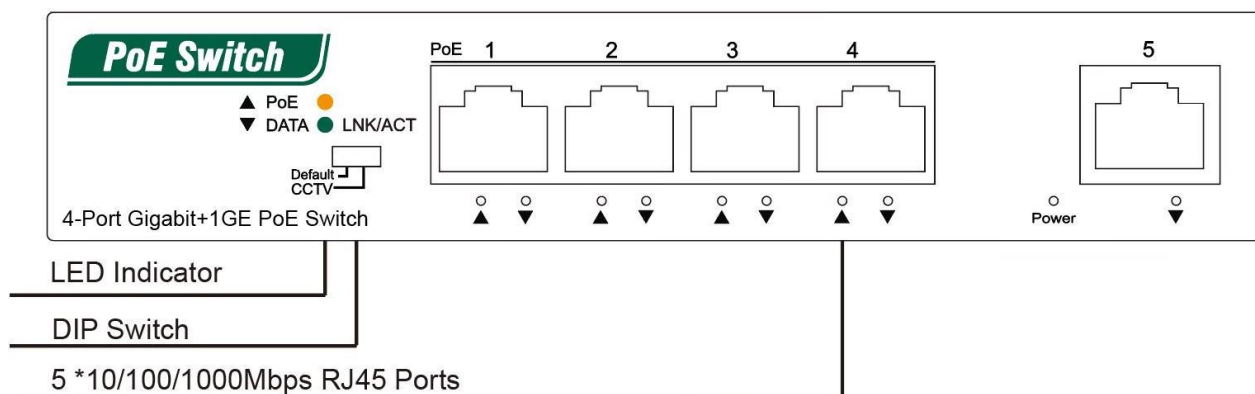


Figure 2-1 Front panel of 20117387

➤ 10/100/1000Mbps RJ45 Ports

Supports 10Mbps, 100Mbps and 1000Mbps rate adaptation, and supports auto-MDI /MDIX. 1-4 ports support PoE power supply. PoE ports automatically detect PD devices and supply power to PD devices that comply with IEEE 802.3af/at standards. Each port has a maximum of 30W. Each port has a corresponding indicator, that is, the indicators 1-5 on the panel in the figure above.

➤ DIP Switch

The DIP switch located on the left panel.

Default mode: When CCTV closed the factory default mode can normal communication between port 1~5

CCTV mode: 1-4 port can be isolated each other but 1-4 port can connect to 5 port after open CCTV to stop broadcast storm to increase forwarding rate of frame. The CCTV mode, Up to 250m PoE distance allows you to expand you network via Ethernet cable to where there is no power line or outlet but where you want to fix device such as IP Cameras.

Note: after changing the mode, there is no need to restart manually.

2.2 LED Indicator

The LED indicators of the Switch are shown in the following table. Users can monitor the work and

running status of the Switch conveniently and quickly through the following indicators:

LED	Color	Function
PWR	Green	Off: No Power supply. Light: Indicates the Switch has power.
PoE	Orange	Off: No PoE powered device (PD) connected. Light: There is a PoE PD connected to be port, which supply power successfully. Blink: Indicates port abnormal PoE supply.
LNK/ACT	Green	Off: The network is not connected Steady on: A 10/100/1000Mbps network device is connected Blinking: Data is being transferred

2.3 Rear Panel

The rear panel of a PoE Switch shows the AC power port. The power input ranges from 100-240V AC at 50/60 Hz.

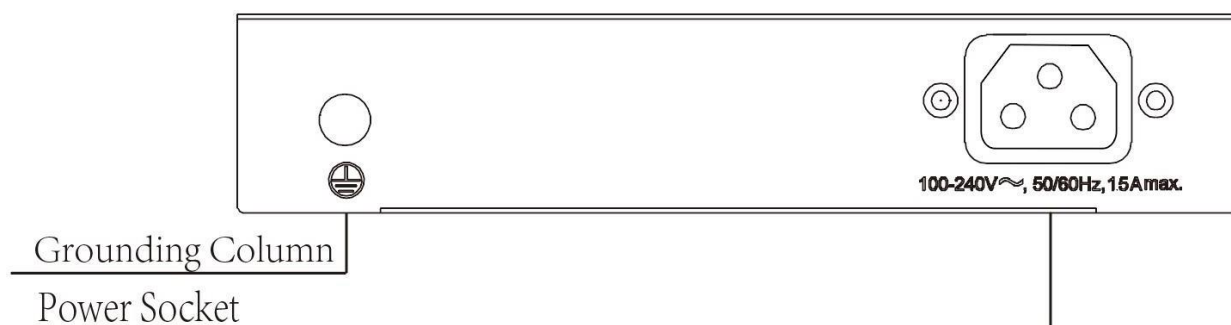


Figure 2-2 Rear panel of 20117387

AC power port

This is an AC power socket, connect the negative plug of the power cord to this interface, and connect the positive plug to the AC power supply.

Grounding Column

It is located to the left of the power interface. Please use wire grounding to prevent lightning strike.

⚠ Precautions: The product comes with a built-in feature for a permanently connected protective grounding conductor. This conductor should be expertly installed into the building's grounding system by a qualified professional..

Chapter 3 Installation Guide

This chapter helps users correctly install and safely use Switches.

1. Installation Precautions



Precautions: To avoid equipment damage and personal injury, observe the following precautions:

- The Switch room should be dry and ventilated, free from corrosive gases and strong electromagnetic interference.
- The humidity of the Switch equipment room should be lower than 90% and around 25 degrees Celsius. If possible, install corresponding facilities.
- The grounding of the Switch shall comply with the grounding requirements described in this manual, and shall be separately and well grounded.
- The Switch voltage should be stable to prevent abnormal operation of the Switch caused by power supply voltage mutation, fluctuation and other phenomena;
- Keep a proper distance between the Switch and other devices. Do not stack other devices with the Switch.
- The connection cable between the Switch and the distribution frame should be standardized and reasonable, and the distribution frame (box) jumper wire should be concise and clear to prevent the phenomenon of parallel lines and wires;
- To avoid the danger of electric shock, do not open the chassis without authorization; If any fault occurs, contact professional maintenance personnel.



Safety Tips:

- Use a three-hole socket with safe grounding and ensure that the PGND cable of the power socket is properly grounded.
- Ensure sufficient space for heat dissipation and ventilation of the Switch. Do not place heavy objects on the Switch.

3.2 Installation Environment

Before installation, make sure that the proper working environment is available, including power requirements, adequate space, proximity to other equipment to be connected, and other equipment in place. Please confirm the following installation requirements:

- Ensure the stability of the workbench and good grounding;
- Check whether cables and connectors required for installation are in place (less than 100m).
- Environment requirements: The operating temperature ranges from 0°C to 40°C and the relative humidity ranges from 5% to 90%.

3.3 Installation

Wall mounted installation

- Install the Switch by following the steps: Fix 2 screws on the wall to align the 2 fixing holes on the Switch, as shown in the figure below, and hang the Switch smoothly on the screws.

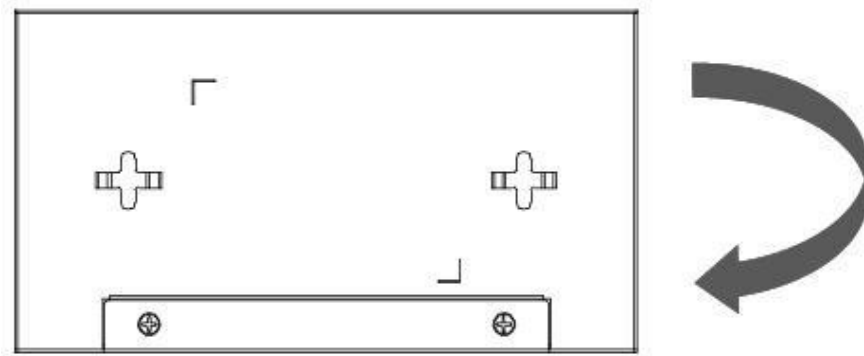


Figure 3-1 Schematic of wall-mounted installation

3.4 Enabling the Switch

Connect the power cord, plug in, and turn on the power. After the Switch is started, the Switch automatically initializes. If all port indicators are on and off, the system is successfully reset. The power LED indicator is steady on.

Note: Before powering on the device, ensure that the voltage is correct; otherwise, the device may be damaged. (Power input range: 100-240V AC 50/60Hz).

Appendix: Technical Specifications

Model	Direktronik Connect Omanagerad 5xPoE
Standard	IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3az, IEEE802.3x, IEEE802.3af, IEEE802.3at
Network Media(Cable)	10BASE-T: UTP category 3,4,5 cable (≤100m) 100BASE-TX: UTP category 5, 5e cable (≤100m) 1000BASE-T: UTP category 5e, 5 cable (≤100m)
MAC Address Table	2K, Auto-learning, Auto-aging
Jumbo Frame	9K Bytes
Packet Buffer	1Mbit
Transfer Mode	Store-and-Forward
Switching Capacity	10Gbps
Packet Forward Speed	7.44Mpps
PoE Port	Port1~4
PoE Output-port	Max 30W
RJ45 PoE Power Supply	Mode A 1/2(+) 3/6 (-)
PoE Total	60W
Power Supply	65W
Dimensions (L*W*H)	140*76.7*27.7mm
Fan	Fanless
Input Voltage	AC 100-240V 50/60Hz
Temperature	Operating Temperature: 0°C ~ 40 °C Storage Temperature: -40 °C ~70°C
Humidity	Operating Humidity: 10% ~ 90% non-condensing Storage Humidity: 5% ~ 90% non-condensing



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