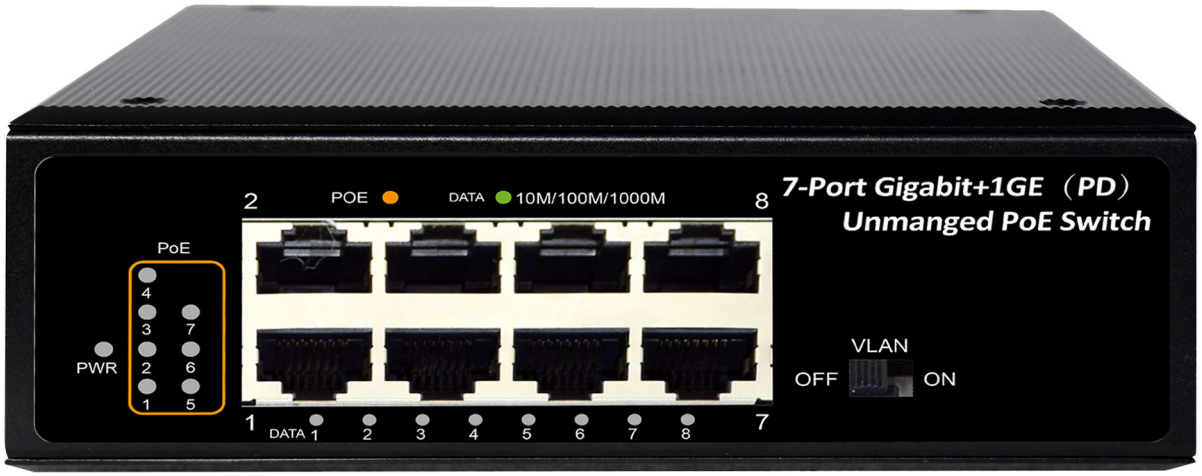
DIGITUS®

Industrial 7-port Gigabit PoE+ Switch with 1 x PD-port



User Manual

DN-651113

Package Contents

Check the following contents of your package:

- PoE Switch x 1
- User Guide x1
- Accessories

If any part is lost and damaged, please contact your local agent immediately.

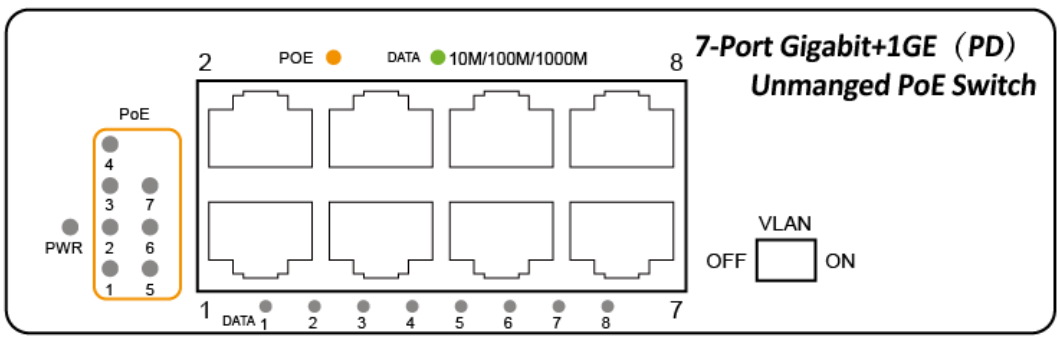
Introduction

The DIGITUS® Industrial Gigiabit PoE Switch is designed for harsh environments where it is exposed to moisture, temperature fluctuations and vibration. With a temperature range of -40°C to 75°C, the Industrial Gigabit PoE Switch can be used under the most adverse conditions. The PoE ports with IEEE802.3af/at support can supply PoE capable devices with up to 30 W per port. Via the PD (Power Delivery) port the switch can be powered by PoE. This eliminates the need to connect a power supply unit to the switch. It ensures a constant availability in highly sensitive areas such as transport, production, traffic and safety monitoring. The simple plug and play system allows the Industrial Gigabit Switch to be quickly integrated into the respective environment. With its Gigabit connectivity and SFP Uplink Ports, the Industrial Gigabit Switch is a flexible, cost-effective solution for the industrial environment.

Hardware Description

Front Panel

The Front Panel Consists of Ethernet Ports. The LED indicators are also located on the panel.



DIP Switch

The DIP switch located on the panel.
VLAN OFF: the factory default mode, normal communication between port 1~8.
VLAN ON: port 1-7 are isolated to stop broadcast Storm and increase forwarding rate of frame, but can communicate via uplink port 8.

LED indicator

LED	Color	Function
PWR	Green	**Off:** No Power supply **Light:** Indicates the switch has power
LNK/ACT	Green	**Off:** No device is connected to the corresponding port **Light:** Indicates the link through that port is successfully established at 10/100/1000Mbps **Blink:** Indicates that the Switch is actively sending or Receiving data over that port
PoE	Orange	**Off:** No PoE powered device (PD) connected **Light:** There is a PoE PD connected to be port **Blink:** Indicates port abnormal PoE function

Upper Panel

The upper panel has a standard 5-Pin industrial power input terminal for double redundant power backup and accepts DC power input.

Power input

The unit provides a 5-pin terminal block. It can be operated using 48-57 V DC power source. Always make sure your input voltage is within this supported voltage range.

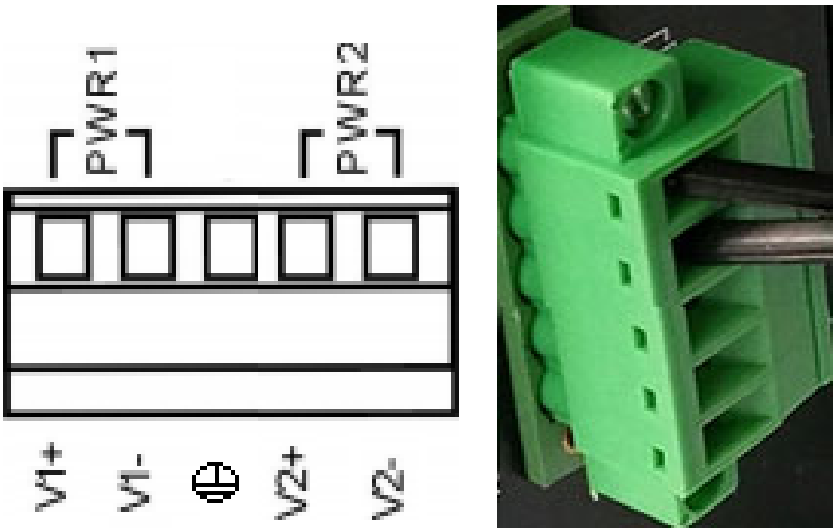
To connect power:

This unit supports two power inputs. Follow the printed polarity for +V1-, +V2- and ground. Connect positive wires to V+, connect negative wires to V-, and connect a neutral wire to the ground mark.

+V1- is for power input one connection (PWR1).

+V2- is for power input two connection (PWR2).

Figure:



Besides the terminal block, the switch can be powered via PoE by using port 8 as power input. Use a PoE injector or switch with IEEE802.3bt standard to power the switch via PoE.

WARNING:

Always SHUT OFF power source to connect power wire.

WARNING:

Any exceeded input voltage will not make this unit function and may damage this unit.

Grounding column

The switch already comes with lightning protection mechanism. You can also ground the switch through the PE (Protecting Earth) with Ground Cable.

Installation of the Switch

This part describes how to install your Ethernet Switch and make connections to it. Please follow the following instructions to avoid incorrect installation causing device damage and security threat.

- Before cleaning the switch, unplug the power plug of the switch first. 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 the switch chassis
- Do not place the switch on an unstable case or desk. The switch might be damaged severely in case of a fall
- Ensure proper ventilation of the equipment room and keep the ventilation vents of the switch free of obstruction
- Make sure that the operating voltage is the same one labeled on the switch
- Do not open the chassis while the switch is operating or when electrical hazards are present to avoid electrical shocks

DIN-Rail Mounting

The DIN-Rail is already screwed on the Industrial Equipment. Please refer to following figures and know how to hang the Industrial Equipment:

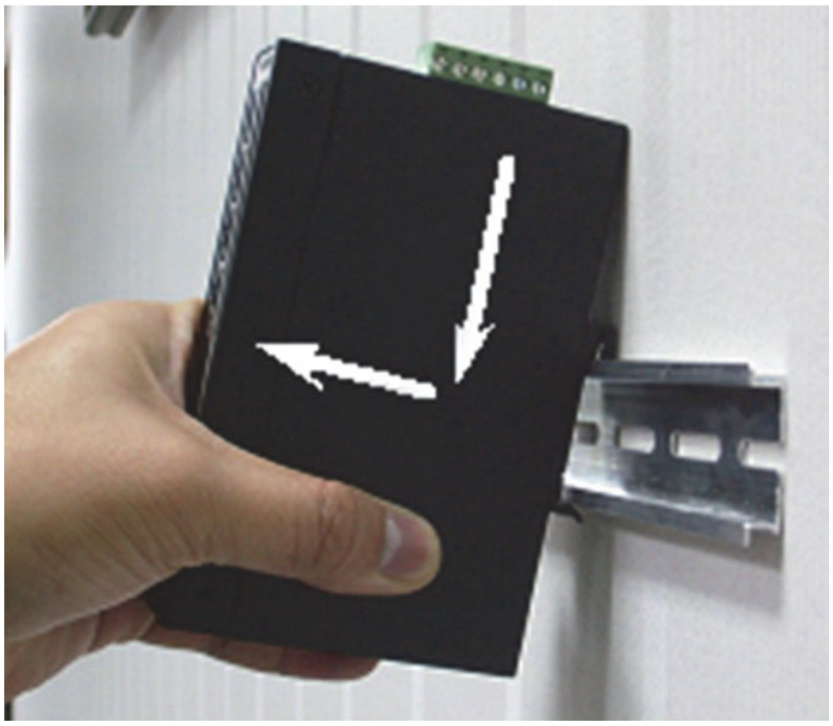
Step 1: Lightly press the button of DIN-Rail into the track.

Install Industrial Equipment in DIN-Rail mount.

Step 2: Check the DIN-Rail is tightly on the track.

Remove DIN-Rail Mounting

Step 1:
Please refer to following procedures to remove the Industrial Equipment from the track.



Remove Industrial Equipment in DIN-Rail mount.

Step 2:
Lightly press the button of DIN-Rail for remove it from the track.

Specifications

Modell	**Industrial 7-port Gigabit PoE+ Switch with 1 x PD-port**
Standard	IEEE802.3, IEEE802.3u, IEEE802.3az, IEEE802.3x, IEEE802.3af, IEEE802.3at, IEEE802.3bt, IEEE 802.3ab, IEEE 802.3z
Network Media(Cable)	10BASE-T: UTP category 3,4,5 cable (≤100m) 100BASE-TX: UTP category 5 cable (≤100m) 1000BASE-T: UTP category 5e, 5 cable (≤100m)
MAC Address Table	4K, Auto-learning, Auto-aging
Transfer mode	Store-and-Forward
Switching Capacity	16Gbps
Input power supply	DC:48-57V / PoE IEEE802.3bt
Dimensions (L*W*H)	138*108*50mm
Fan	Fanless
PoE Port	Port1~7
PoE Power on RJ45	Mode A 1/2(+),3/6(-) or Mode B 4/5(+),7/8(-)
PoE Output	30W(Max)
PD Port	Port 8, IEEE802.3bt
PoE Power budget	120W
PD Port input	95W
Temperature	Operating Temperature: -20°C ~ 70 °C (-4 °F ~158°F)
	Storage Temperature: -40 °C ~ 75°C (-40 °F ~167°F)
Humidity	Operating Humidity: 10% ~ 90% non-condensing
	Storage Humidity: 5% ~ 90% non-condensing

This is a Class A product. In home environment, this product may cause radio interference. In this case, the user may be required to take appropriate measures.

Hereby Assmann Electronic GmbH, declares that the Declaration of Conformity is part of the shipping content. If the Declaration of Conformity is missing, you can request it by post under the below mentioned manufacturer address.

www.assmann.com
Assmann Electronic GmbH
Auf dem Schüffel 3
58513 Lüdenscheid
Germany