DIGITUS®

Industrial 4-port Gigabit PoE+ Switch with 2 x SFP uplink - DN-651109

Industrial 8-port Gigabit PoE+ Switch with 2 x SFP uplink - DN-651110

User Manual

DN-651109 / DN-651110

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. 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.

DN-651109   **DN-651110**
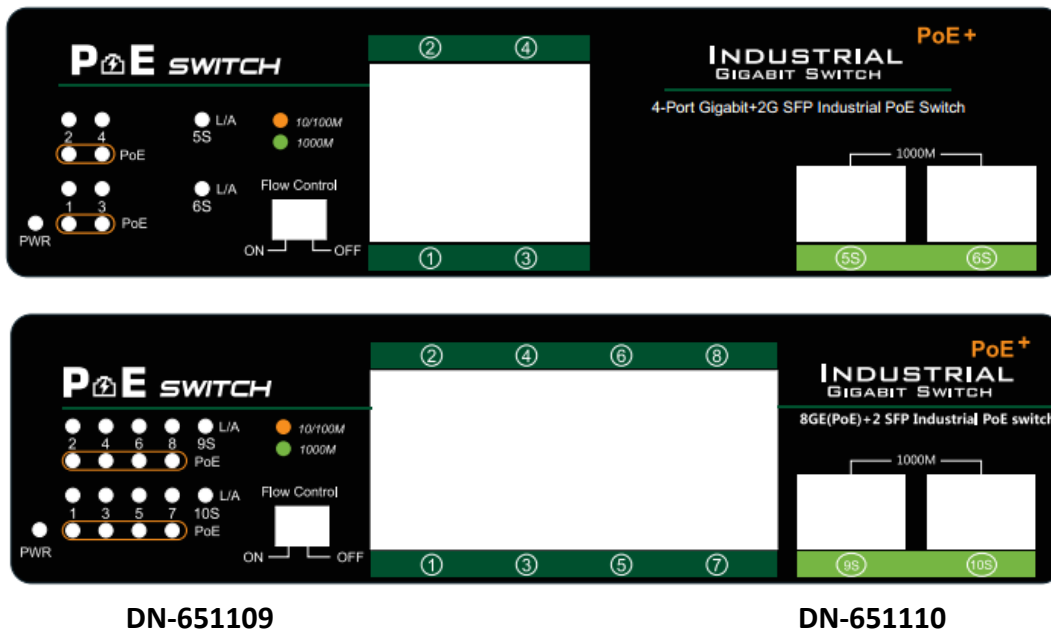
DIP Switch

The DIP switch located on the panel.

Flow Control ON: prevents data loose from mass data transmission and slow down the network speed. It is suitable for network environment where the network is shared to public.

FLOW Control OFF: the factory default mode. It performs normal data transmission. It is suitable for home and office network environment.

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 1000Mbps **Blink:** Indicates that the Switch is actively sending or receiving data over that port
	Orange	**Off:** No device is connected to the corresponding port **Light:** Indicates the link through that port is successfully established at 10/100Mbps **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

This 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.
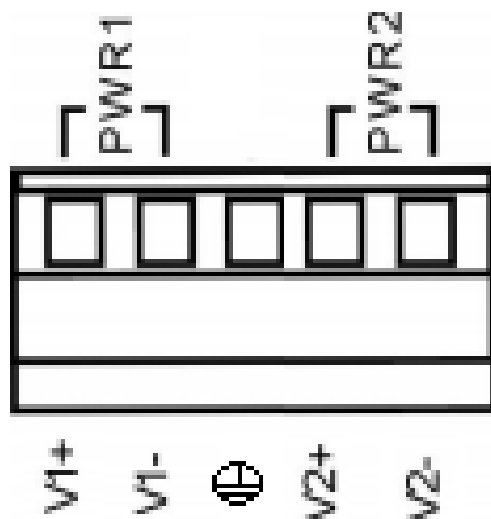
To connect power:

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:

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

Model	Industrial 4-Port Gigabit PoE+ Switch with 2 x SFP Uplink	Industrial 8-port Gigabit PoE+ Switch with 2 x SFP uplink
Standard	IEEE802.3, IEEE802.3u, IEEE802.3az, IEEE802.3x, IEEE802.3af, IEEE802.3at, 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) 1000BASE-TX : Gigabit SFP optical RJ45 electrical module 1000BASE-SX : Gigabit SFP multimode (850nm, LC, DDM) 1000BASE-LX : Gigabit SFP mode (1310nm, LC, DDM) 1000BASE-ZX: Gigabit SFP single mode (1550nm, LC, DDM)	
MAC Address Table	4K, Auto-learning, Auto-aging	
Transfer mode	Store-and-Forward	
Jumbo frame	9216 Byte	
Packet buffer	1.5M bit	
Switching Capacity	12Gbps	20Gbps
Packet Forward Speed	8.9Mpps	14.88Mpps
Input power supply	DC:48-57V	
Dimensions (L*W*H)	165*147*54mm	
Fan	Fanless	
PoE Port	Port1~4	Port1~8
PoE Power on RJ45	Mode A 1/2(+),3/6(-)	
PoE Output	30W(Max)	
EEE	IEEE 802.3az	
Temperature	Operating Temperature: -40°C ~ 75 °C (-40 °F ~167°F) Storage Temperature: -40 °C ~ 80°C (-40 °F ~176°F)	
Humidity	Operating Humidity: 10% ~ 90% non-condensing Storage Humidity: 5% ~ 90% non-condensing	
Surge Protection	Differential mode ±4KV Common mode ±6KV	
MTBF	>100000 hours	
Electrostatic standard	Contact 8KV,air 10KV	

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.

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