ESMPN8-N2-B
Quick Start Guide

Rev 1709

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1 INTRODUCTION

1.1 ESMPN8-N2-B INTRODUCTION

ESMPN8-N2-B is a managed full SFP Industrial Ethernet switch with 8*1Gbps SFP and 2*10Gbps SFP ports. The switch supports Ethernet Ring Protection Switching (ERPS) as well as STP/RSTP/MSTP. It also supports Web-based network management, VLAN, QoS, SNMP, IGMP snooping etc. Rugged design with IP40 enclosure and industrial level 3 protection makes it suitable for applications such as Intelligent Transportation System, IP surveillance and industrial networks.

1.2 FEATURES

- Managed industrial switch
- 8 1000Base-FX SFP, 2 10GBase-FX SFP+
- Support EPRS (typical recovery time < 30ms with 250 units of connection)
- Support different redundancy protocols and standards STP / RSTP / MSTP
- Support SNMPv1/v2c/v3 & RMON & Port base/802.1Q VLAN network management
- Support IGMP Snooping multicast function
- Support WEB, Telnet, SSH, Console (CLI)
- Support open and close port, binding MAC and port
- Support 802.1x network access control
- Support 802.1Q protocol, Isolate network flow
- Support Radius Centralized password management
- Overload current protection and reverse polarity protection
- IP40 enclosure protection
- Unique DIN mount design makes mount and removal easy

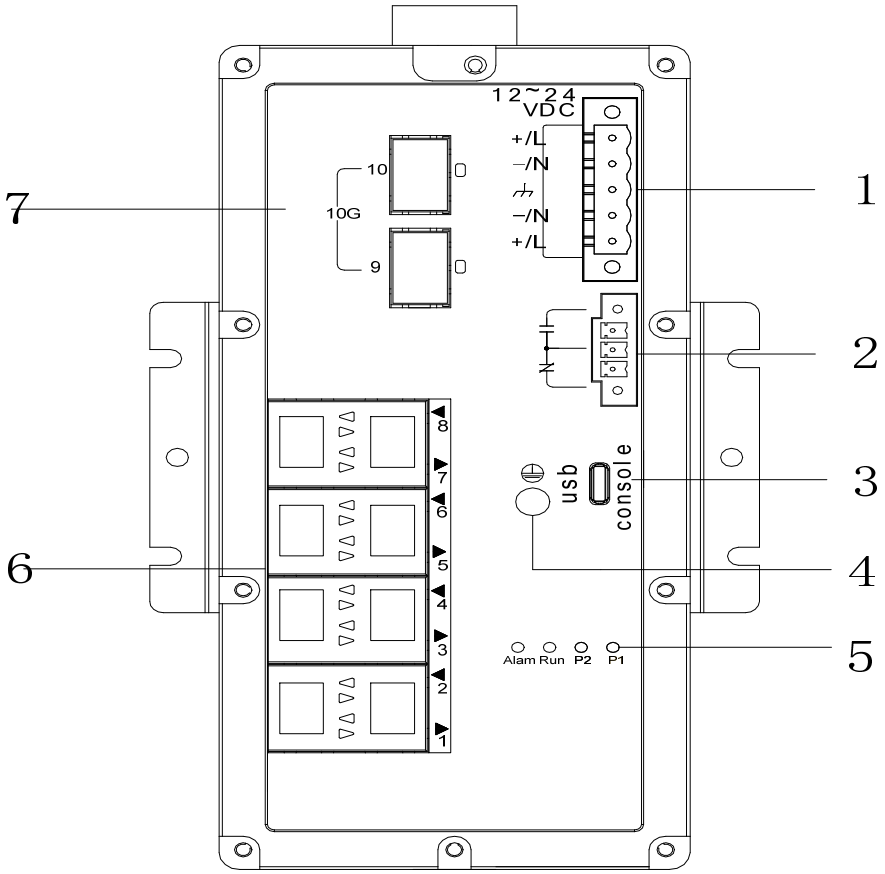
1.3 SPECIFICATIONS

SFP	
1000MBase-FX SFP	8
10GBase-FX SFP	2
Switching Performance	

Architecture	Store and Foreword
Switching Capacity	56Gbps
Power	
Redundant Input Power	Dual DC inputs. 45~57VDC, 5-pin screw terminal
Power Consumption (Max.)	≤ 30W
Overload Current Protection	Present
Reverse polarity protection	Present
Mechanical	
Enclosure	IP40
Dimension (W x D x H)	68 mm(W) x 105 mm(D) x 146 mm(H)
Weight	0.9Kg
Environment	
Storage Temperature	-40 to +85°C (-40 to 185°F)
Operating Temperature	-40 to +75°C (-40 to 167°F)
Operating Humidity	5% to 95% Non-condensing

2 PANEL VIEWS

2.1 Front panel view



1. 12~24VDC power input
2. Alarm output terminal block (one is normal open and the other is normal close)
3. USB console
4. Grounding screw.
5. PWR, RUN and Alarm status indication
6. 1G SFP ports: #1 ~ #8
7. 10G SFP ports: # 9 ~ #10

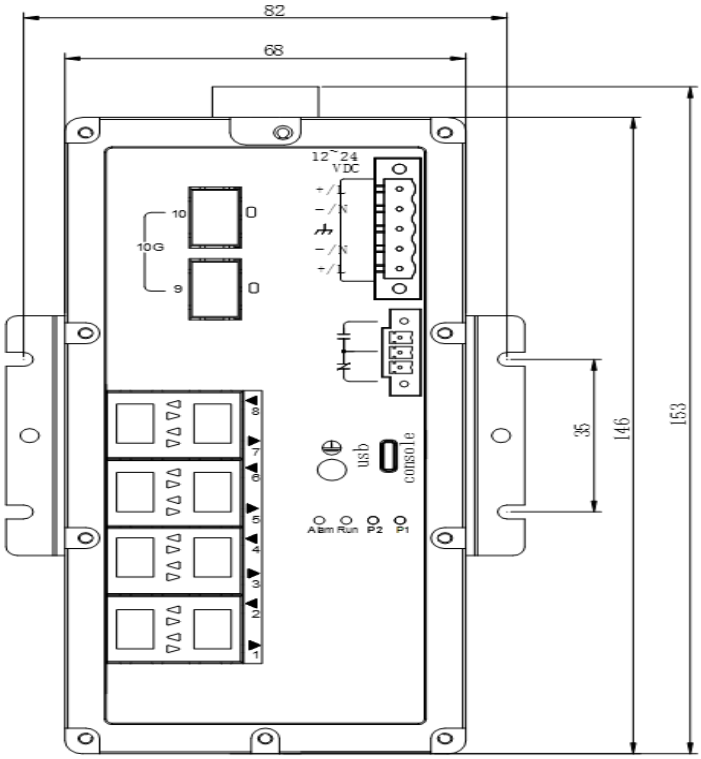
WARNING：This product MUST be mounted to a well-grounded mounting surface such as a metal panel.

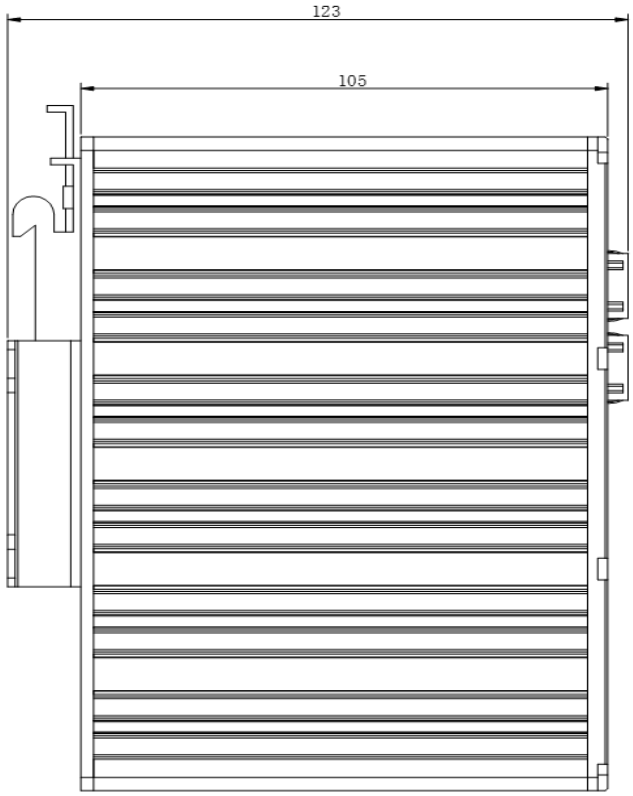
Status indicator LED

LED	Color	Status	Description

Run	Green	On	System running lights, the system normally solid green
Alarm	Green	On	Warning lamp
P1	Orange	On	Power 1 is being supplied
		Off	Power 1 is not being supplied
P2	Orange	On	Power 2 is being supplied
		Off	Power 2 is not being supplied
SFP port			
LINK	Green	On	The corresponding port's link is active
ACT		Blinking	Data is being transmitted

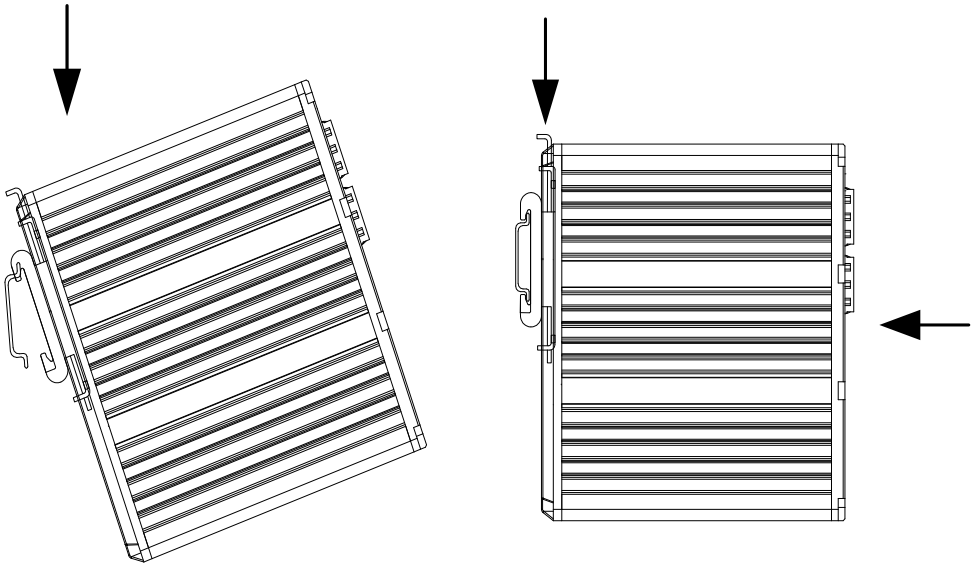
3 DIMENSIONS (UNIT=mm)





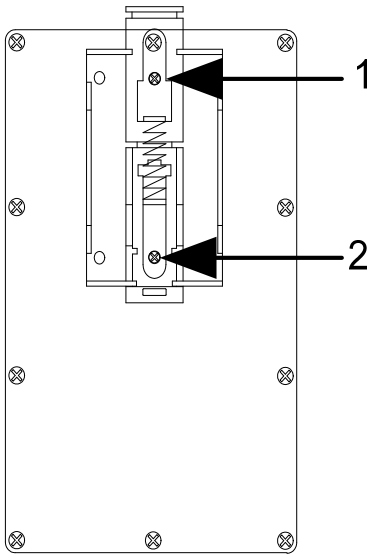
4 MOUNTING

4.1 DIN mounting

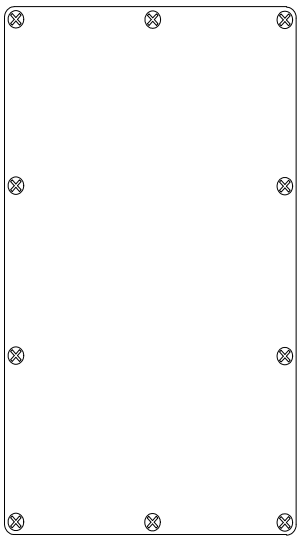


Very simple: Press the clamp, insert into rail then loosen hand

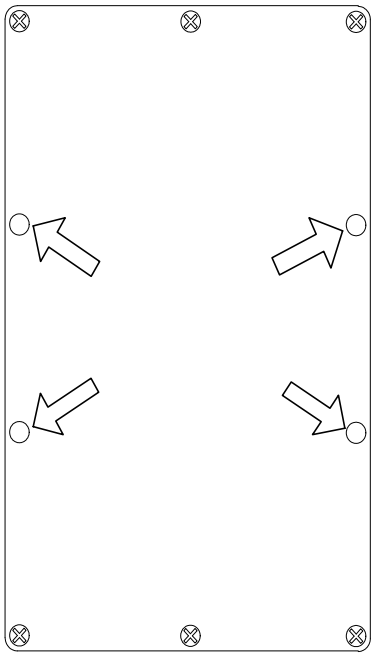
4.2 Wall mounting



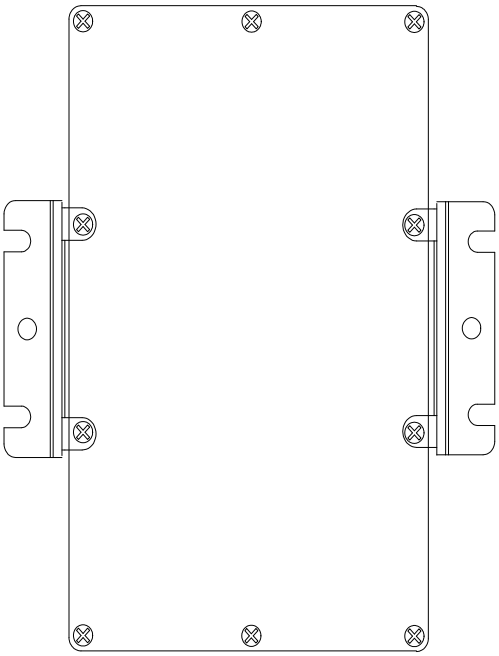
Step 1



Step 2



Step 3



Step 4

Step 1: Remove the guide rail fastener;
Step 2: Remove the DIN clamp in the rear panel;
Step 3: Find the wall mounting accessory, and loosen these 4 screws in the Switch.
Step 4: Mounting the accessory on the rear panel;
Step 5: Fixed the switch on the wall.

4.3 Items for attention

- **Operating Ambient:** If the product is installed in a closed rack, the inside operating ambient temperature of the rack may be higher than outside. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum operating temperature specified by the manufacturer.
- **Air Flow:** Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
- **Circuit Overloading:** Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring.
- **Reliable Earthing:** Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

4.4 Grounding

Grounding and wire routing help limit the effects of noise due to electromagnetic

interference (EMI). Run the ground connection from ground screw to the grounding surface prior to connecting devices.

5 Cable

5.1 SFP port

SFP port supports both electrical and optical SFP modules. Selecting right SFP modules (rate, MM/SM, 1 fiber/2 fibers) based on application. Please notice that 1000M SFP port supports 1000Mbps only, and 10G SFP port supports 10Gbps only.

Need Help?

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