NEPEAN Power

Un-Managed Industrial Ethernet Switch

IES2010-2GS (2 Gigabit SFP + 8 100M copper Ports)

NEPEAN Power is a proven leader in the supply and manufacture of quality engineered solutions, products and technologies. Established in 1994, through the commitment of our dedicated team we have become a supplier of choice.

Features

IES2010 series are 10-port 100M/Gigabit unmanaged industrial Ethernet switches.

The series include two types of products and offer multiple ports, such as:

- 100M fiber ports and
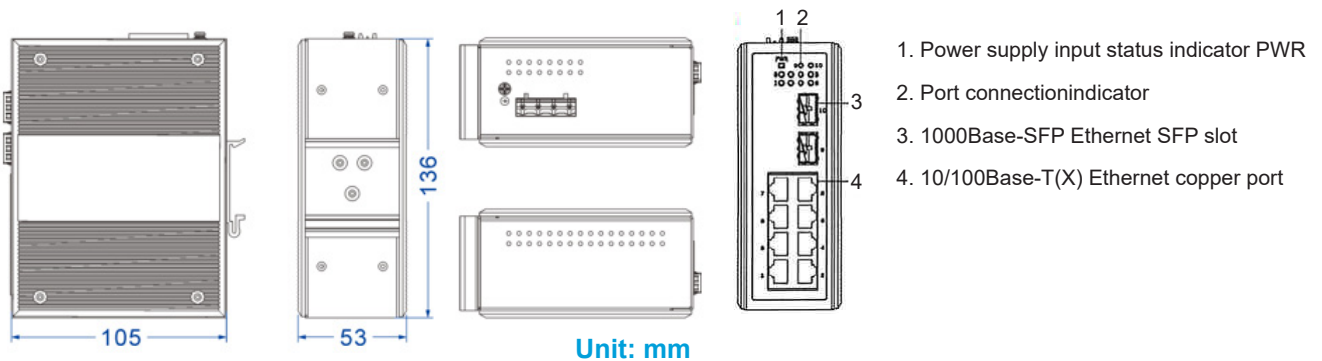- copper ports as well as Gigabit SFP slots.

They also adopt DIN-Rail mounting or wall mounting, which can meet the requirements of different application scenes.

The input power supply is two independent power supply circuits which can ensure the normal operation of the device when one power supply fails.

Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC.

It can be widely used in smart grid, railway transportation, smart city, safe city, new energy, aerospace, intelligent manufacturing, military project and other industrial fields.

Diagram

136

105

53

Unit: mm

1 2

3

4

1. Power supply input status indicator PWR

2. Port connectionindicator

3. 1000Base-SFP Ethernet SFP slot

4. 10/100Base-T(X) Ethernet copper port

Ordering Information

Part Number	Description
IES2010-2GS	Un-Managed Switch 2*1000M SFP(SFP slot) +8*10/100Baes-T(X) (RJ45), 12~48VDC
SW3825DI-442	Transceiver module SFP 1.25Gb/s LC Connector, 20Km

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6-1

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Specifications

Standard & Protocol	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX & 100Base-FX IEEE 802.3z for 1000Base-X
Interface	Copper port: 10/100Base-T(X), RJ45, Automatic Flow Control, Full/Half Duplex Mode, MDI/MDI-X Autotunning Fiber port: 100Base-FX, SC/ST/FC optional SFP slot: 1000Base-SFP
LED Indicator	Power Supply Indicator, Port Indicator
Switch Property	Transmission mode: store and forward MAC address: 8K Backplane bandwidth: 7.6G Switch time delay: <10µs
Power Requirement	12~48VDC, 4-pin 7.62mm pitch terminal blocks Dual power supply redundancy, non-polarity, reverse connection protection
Power Consumption IES2010-2GS IES2010-2GS-4F	**No-load(@24VDC) Full-load(@24VDC)** 1.70W 6.29W 5.95W 7.34W
Environmental Limit	Operating temperature range: -40~75°C Storage temperature range: -40~85°C Relative humidity: 5%~95% (no condensation)
Physical Characteristic	Housing: IP30 protection, metal Installation: DIN-Rail mounting or wall mounting Dimension (W x H x D): 53mm×136mm×105mm
Inductrial Standard	IEC 61000-4-2 (ESD), Level 4 • Air discharge: ±15kV • Contact discharge: ±8kV IEC 61000-4-4)EFT), Level 4 • Power supply: ±4kV • Ethernet port: ±2kV • Relay: ±4kV IEC 61000-4-5 (Surge), Level 4 • Power supply: common mode ±4kV, differential mode ±2kV • Ethernet port: common mode±2kV, defferential mode ±2kV • Relay: common mode: ±4kV, differential mode ±2kV IEC 61000-4-6 (CS), Level 3 • Test level: 10V • Frequency range: 180kHz-80MHz Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS

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6-1

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Checking Supply Connection

LED	Status	Description
PWR	ON	Power supply is connected and running normally
	OFF	Power supply is disconnected and running abnormally
Link/ACT (1-10)	ON	Ethernet port connection is active
	Blinking	Data transmitted
	OFF	Ethernet port connection is inactive
10/100M (only suitable for 100M copper port of model II)	ON	100M operating mode (100Base-TX)
	OFF	10m operating mode (10Base-T)

Specifications

Panel	
Gigabit SFP	1000Base-SFP, SFP slot
100M Copper Port	10/100Base-T(X) self-adapting RJ45 port, full/half duplex self-adaption, support MDI/MDI-X self adaption
100M Fiber Port	100Base-FX, optional SC/ST/FC port
Indicator	Power indicator, interface indicator and operating mode indicator
Exchange attributes	
Backplane bandwidth	7.6G
Packet buffer size	1Mbit
MAC table size	8K
Power Supply	
Input power supply	12~48VDC
Access Terminal	4 pins 7.62mm pitch terminal blocks Support dual power supply redundancy and anti-reverse connection
Consumption	
No-load	≤ 5.9W @ 24VDC
Full-load	≤ 7.3W @ 24VDC
Environmental Limits	
Working Temperature	-40~75°C
Storage Temperature	-40~85°C
Working Humidity	5%~95% (no condensation)
Protection Grade	IP30 (metal shell)
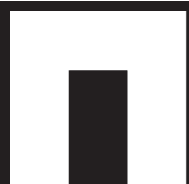
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6-1