SMANEX

全 穎 智 聯 有 限 公 司

SW3106G-2GF
User Manual

1. Specification

Model	SW3106G-2GF Industrial-grade 6 ports Ethernet Switch
Ethernet Ports	4* 10/100/1000 Base-T(X)
	RJ45 port supports full-duplex/half-duplex and MDI/MDI-X auto-negotiation.
Fiber ports	2 * 1000 Base-FX
Fiber Optical port parameters	Wavelength: Singlemode 1310nm/1550nm, Multimode 850nm Connector type: LC type (SFP interface) Transmission distance: Singlemode 20Km（20Km~80Km optional），Multimode 550m Data rate: 1.25Gbps
Power	DC Model: DC 9~60V (Supports dual power redundancy, non-polarized input)
Consumption	<3.5W（@12VDC)
IEE Standard	IEEE802.3、802.3u、802.3x、802.3ab、802.3z
Switching mode	Store -Forward
Backplane Bandwidth	14Gbps
Buffer Size	2Mbit
MAC Address	2K
Dimension	140mm×35mm×100mm（excluding DIN rail and terminal blocks)
Operating Temperature	-40℃~+85℃
Storage Temperature	-40℃~+85℃
Humidity	5%~95%RH (non-condensing)
EMC	IEC61000-4-2 (ESD), Level 4 IEC61000-4-5(Surge), Level 4 ※ The ports support 6KV surge protection. IEC61000-4-4(EFT), Level 4 IEC61000-4-3（RS），Level 4 IEC61000-4-6（CS），Level 4

# 2. Hardward and Installation

❖ **Cautions**

To avoid damage to the device or personal injury due to improper use, please note the following:

1. Ensure the switch is powered off during installation.

2. Make sure the input voltage is within the range specified for the switch.

3. When connecting the power supply, ensure the power cord is properly connected to the power terminals before powering on.

4. When powering off, disconnect the power supply before removing the power cord.

5. Do not open the switch's casing.

6. Do not place heavy objects on the switch.

7. Keep the switch clean and do not use any liquids to clean it.

❖ **Installation**

1. Position the switch at an upward angle so that the upper hook on the back of the switch clips onto the top of the DIN rail.

2. Press the switch downward to secure the lower hook on the back of the switch into the DIN rail. Once clipped in, if there is no noticeable movement, the switch is securely installed.
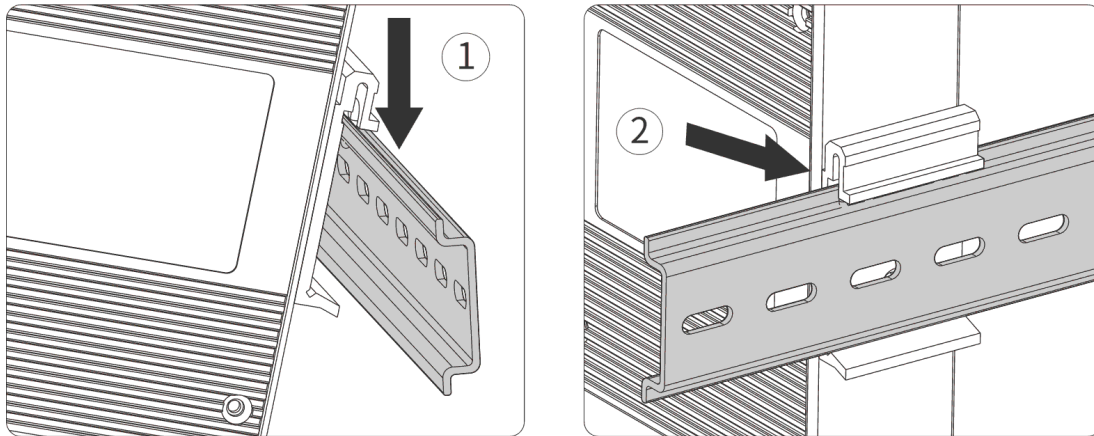
❖ **Power Input**

The series of 3/4/5 100Mbps ports industrial Ethernet switch provides a 5-position, 5.08mm-pitch industrial-grade terminal block as the power input interface. The connection method differences depending on the power input range:

➢ **DC Model**: Powered by DC 9~60V, supports dual power inputs with non-polarized input. V1 and V2 serve as backups for each other, and you can connect to either V1, V2, or both simultaneously.

➢ **AC Model**: Powered by AC 85~264V / DC 110~370V. Connect the power lines to the V1+ (L) and V1- (N) terminals only. Do not connect to the V2+ or V2- terminals. Please exercise caution to prevent electric shock.
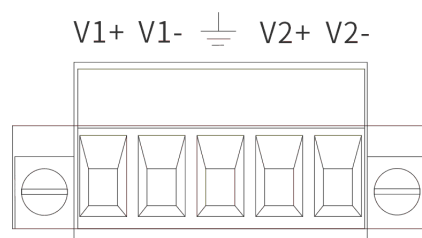
❖ Ethernet

The RJ45 port supports CAT-5 twisted pair cables and automatically recognizes straight-through and crossover cables, with a transmission distance of up to 100

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meters. Users can connect their network devices (such as workstations, hubs, or switches) to the switch's RJ45 port using Cat5 twisted pair cables.

❖ Fiber Optical

The switch series supports SC/ST/FC single-mode or multi-mode fiber optic interfaces. Please confirm the interface type before connection.

Precautions for Fiber Optic Connection:

1. Before connecting the optical port, please remove the protective cap from the fiber optic port. When the fiber optic port is not in use, do not remove the protective cap to keep the fiber optic port interface clean.

2. Check the fiber optic connector for any damage or dirt. If you find any of these issues, please feel free to contact us.

3. Connect the TX of the fiber optic port to the RX of the opposite fiber optic port, and connect the RX of the fiber optic port to the TX of the opposite fiber optic port. Please refer to the diagram below. If using a single-fiber optic port, a single fiber connection is sufficient.

4. After completing the connection, please check whether the L/A indicator light corresponding to the optical port on the device panel is lighted. If the indicator light is on, it indicates that the fiber optic connection is correct.
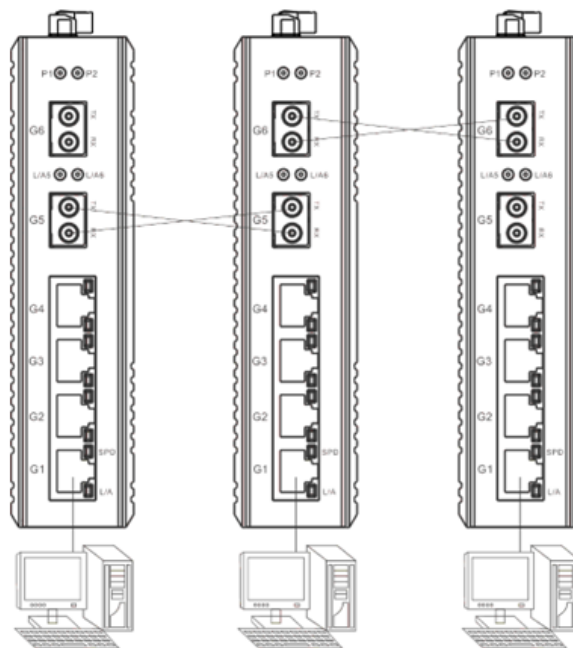
**Connection of Fiber Optical Interfaces in
Industrial Switch**

3. LED

❖ LED Indicator

LED Indicators		Status	Definitions
Power LED	P1/P2	Steady On	Power Supply is on normal
		Off	Disconnection or malfucntion
Fiber Optical LED	L/A5、L/A6	Steady On	Connection
		Flash	Data transmission and reception
		Off	Discinnection or malfunction
RJ45 Port Indicator Light	SPD (Yellow LED)	Steady On	1000M Operating Status
		Off	10/100M Operating Status
RJ45 Port Indicator Light	L/A (Green LED)	Steady On	The RJ45 works as valid connection
		Flash	The RJ45 works transmitting and receiving data
		Off	The RJ45 port does not work.

4. Product Dimension

❖ Dimension
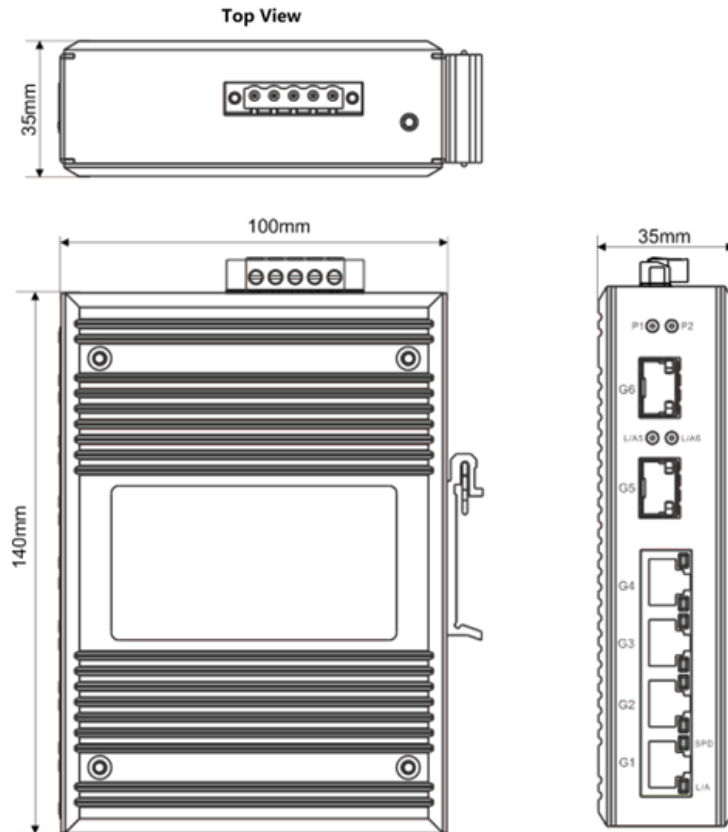
5. Package

❖ Packing

Item	Q'ty	Remark
Ethernet Switch device	1	
AC220V Power Cable	1	For AC type model
User Manual	1	Digital copy