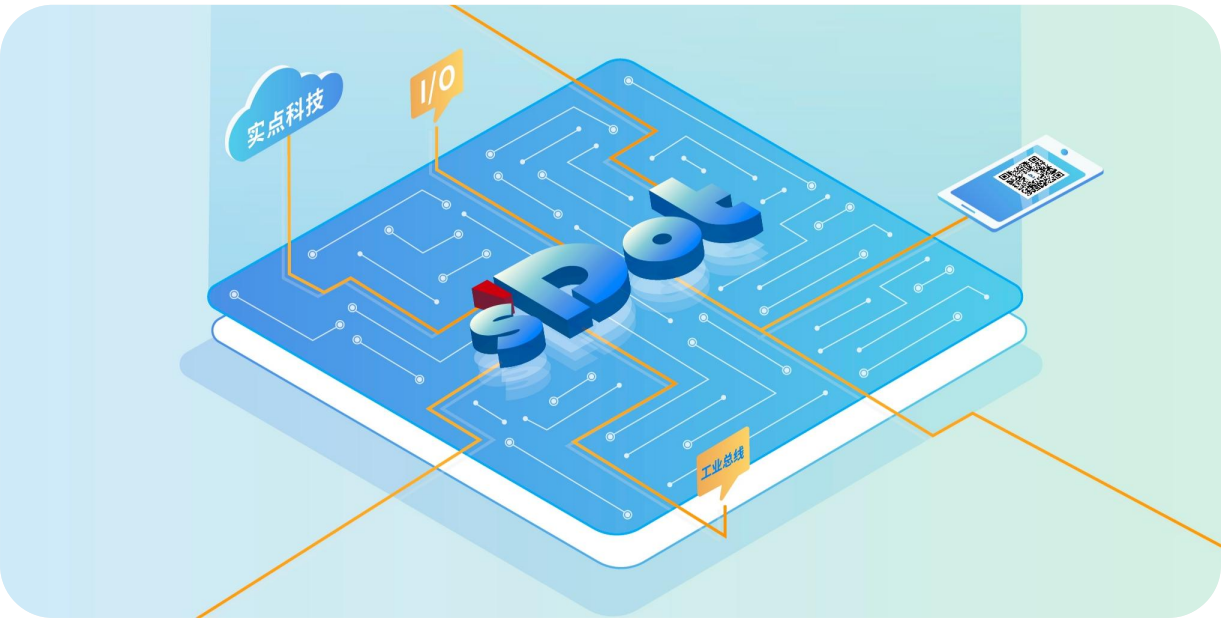

SW4-GUP05D

Ethernet Switch

User Manual

Nanjing Solidot Electronic Technology Co., Ltd.

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1 Product Overview

1.1 Product Introduction

This 5-port, unmanaged industrial Ethernet switch with Gigabit electrical ports supports industrial communication transmission requirements. It utilizes advanced automation design concepts, offers plug-and-play functionality, and supports advanced IEEE Ethernet energy-saving technologies and broadcast storm protection. It complies with FCC, CE, and RoHS standards. The SW4-GUP05D switch has an operating temperature range of -40°C to 80°C, offering exceptional ruggedness to withstand harsh environments and easily fit into compact control cabinets. Its DIN-rail mounting, wide operating temperature range, IP40-rated housing, and LED indicators make it a plug-and-play industrial-grade device, providing a reliable and convenient solution for connecting users' Ethernet devices.

1.2 Product Features

- Support 5-port Gigabit electrical ports
- Support 10/100/1000M, full/half duplex, MDI/MDI-X adaptive, plug and play
- Support 2-position DIP switch and broadcast storm protection function
- The whole machine is compact and easy to install in a small environment
- IP40 protection level ensures that the equipment can adapt to various harsh on-site environments
- Supports DC9~56V wide voltage, and the power consumption of the whole machine is ≤5W
- Meet industrial-grade operation standards, with an average failure-free time of more than 300,000 hours
- The power supply supports overcurrent, overvoltage protection design, and reverse polarity protection.

2 Product Parameters

2.1 General Parameters

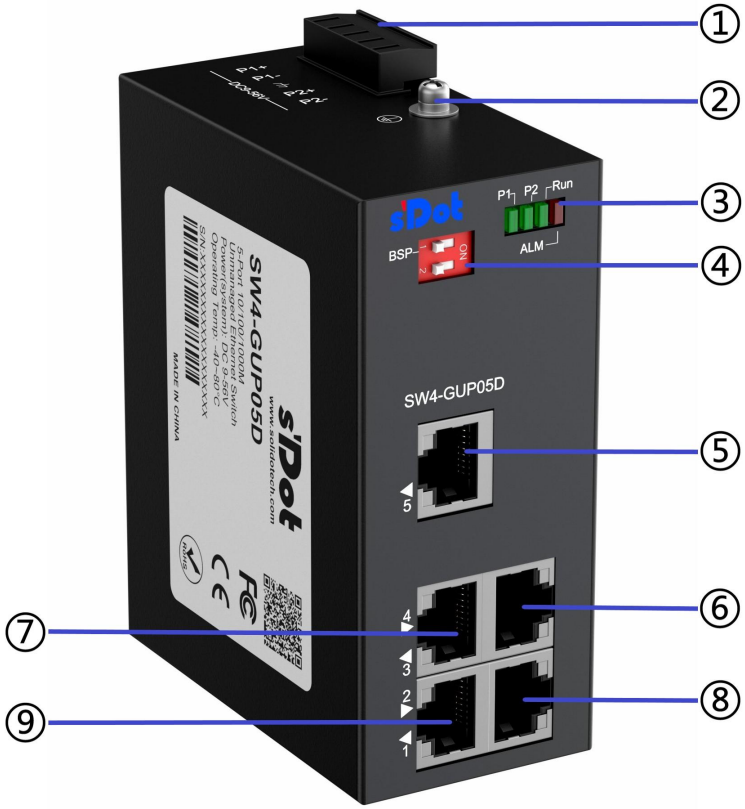
Interface parameters		
Product Name		1000M 5-port industrial Ethernet switch
Product Model		SW4-GUP05D
Product Description		5-port Gigabit unmanaged industrial Ethernet switch
Bus interface		5×RJ45
RJ45 port		10/100/1000BaseT(X) auto-sensing, full/half duplex MDI/MDI-X auto-sensing
Technical Parameters		
Network Protocol		IEE802.3, IEE802.3u, IEE802.3ab
Operating temperature		-40℃~+80℃（-40℉~176℉）
Storage temperature		-40℃~+85℃（-40℉~185℉）
Relative humidity		5%~95%, non-condensing
EMC		IEC (EN) 61000-4-2 (ESD): Contact discharge ±8kV, air discharge ±15kV IEC(EN)61000-4-3(RS)：10V/m(80~1000MHz) IEC (EN) 61000-4-4 (EFT): Power supply: ±4kV; Ethernet port: ±2kV IEC(EN)61000-4-5(Surge): Power supply: ±4kV CM//±2kV DM Network port: ±4kV CM//±2kV DM IEC (EN) 61000-4-6 (radio frequency conduction): 3V (10kHz~150kHz), 10V (150kHz~80MHz) IEC (EN) 61000-4-16 (common mode conduction): 30V to 300V, 1s Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Exchange properties	Transmission method	Store-and-forward
	MAC address	2K

	Cache	2Mkbit
	Backplane bandwidth	14G
	Switching delay	<7μs
	Power consumption	<5W
Power supply	Input voltage	DC9~56V
	Input terminals	Phoenix Terminal
	Dual power supply redundancy	Support
	Overcurrent protection	Support built-in overcurrent 4.0A protection
	Reverse polarity protection	Support
DIP switch		Support DIP control panel DIP switch 1: Storm protection function switch DIP switch 2: Reserved
Mechanical properties	Housing	IP40 protection grade, metal housing
	Installation	DIN rail, wall-mounted
	Heat dissipation method	Natural cooling, no fan
	Weight	320g
	Size	100×80×44mm
Protection level		IP40
Certification		CE, FCC, RoHS, ISO9001
Mean time between failures		300,000 hours
Warranty		5 years

3 Panel

3.1 Panel structure

Name of each part of the product



Serial number	Name	Description
①	Power interface	5P terminal
②	Ground terminal	Protective grounding
③	Indicator lights	Indicates power status and system operation status

	and signs	
④	Dip switch	Support broadcast storm protection function
⑤	Bus interface 5	RJ45
⑥	Bus interface 4	RJ45
⑦	Bus interface 3	RJ45
⑧	Bus interface 2	RJ45
⑨	Bus interface 1	RJ45

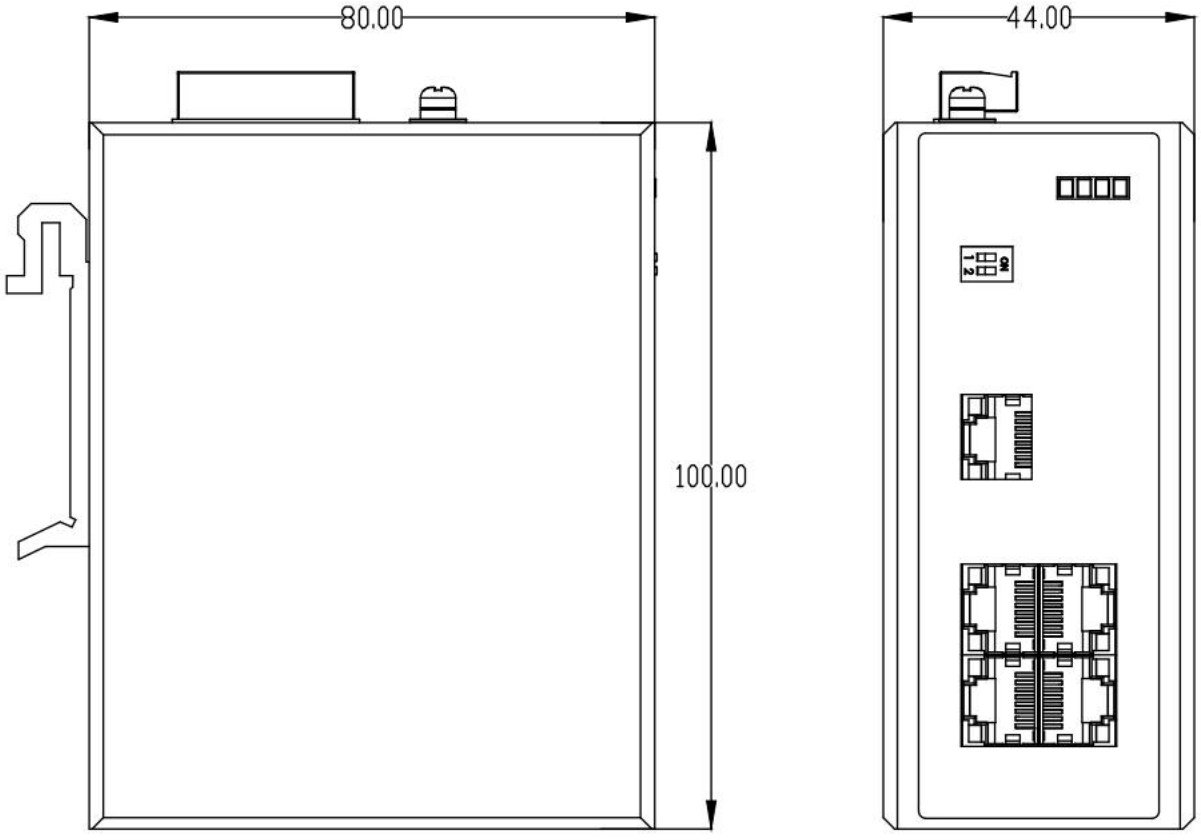
3.2 Indicator lamp definition

name	Logo	Color	Status	Status Description
Power indicator	P1/P2	Green	Steady on	Power supply is normal
			Off	The power supply is abnormal or not powered on.
System operation indicator light	RUN	Green	Steady on	The system is running normally
			Off	System abnormality
Port indicator	1~5	Green	Steady on	The network link is connected normally
			Flashing	There is data transmission
			Off	The power is off or the module is abnormal.
Power warning light	ALM	Red	Steady on	Single power supply operation
			Off	Dual power supply operation

4 Installation and removal

4.1 Dimensions

Overall specifications (unit: mm)



5 Wiring

5.1 Wiring Diagram