Technical Specification for SW108G – 8-Port Ethernet Switch





VERSION NUMBER: V2.1

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Product Overview

The SW108G is an industrial-grade 8-port Gigabit Ethernet switch that supports 8 10Base-T/100Base-T/1000Base-TX electrical ports. The product complies with FCC, CE, and ROHS standards. The SW108G switch operates within a temperature range of -40°C to 70°C, exhibiting exceptional ruggedness to adapt to various harsh environments and can be conveniently placed in compact control cabinets. With features such as rail mounting, wide temperature operation, an IP40 protection-rated shell, and LED indicators, the SW108G becomes a plug-and-play industrial-grade device, providing users with reliable and convenient solutions for networking their Ethernet devices.

Product Features

- Utilizes high-quality optoelectronic integrated modules to provide excellent optical and electrical characteristics
- Ensures reliable data transmission and long service life
- Supports full-duplex or half-duplex mode with auto-negotiation capability
- Supports automatic cross-detection for network ports
- Comes with built-in store-and-forward mechanism, supporting multiple protocols
- Complies with industrial operating standards, with an average fault-free operation guarantee of over 300,000 hours
- Power supply: DC12~52V with reverse connection protection
- Lightning surge protection (power supply): 5000A (8/20us)





Technical Specifications

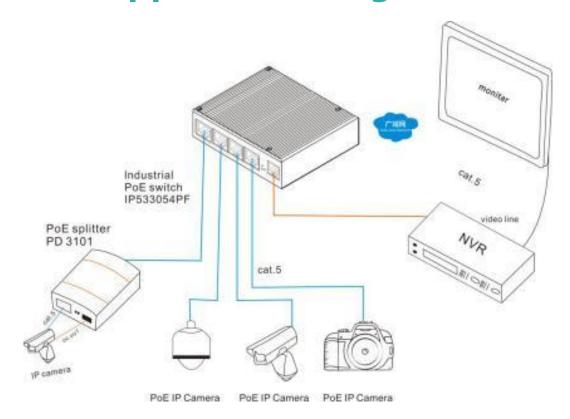
Interfaces	
Gigabit Ethernet ports	8 RJ45 ports (10/100/1000BaseT(X) auto-detect, full/half duplex
	MDI/MDI-X adaptive)
Power interface	Phoenix terminal
Indicators	Power indicator: PWR; Port indicators: Link
Functional Features	
Transmission mode	Store-and-forward
MAC addresses	8K
Cache	2Mbit
Backplane bandwidth	20Gbps
Switching delay	< 10µs
Power consumption	< 5W
	10Base-T, compliant with IEEE 802.3
Network Protocols	100Base-T, compliant with IEEE 802.3u
	1000Base-T, compliant with IEEE 802.3ab
	Flow control, compliant with IEEE 802.3x
	EMI: FCC Part 15 Subpart B Class A, EN 55022 Class A
	EMS:
	IEC(EN)61000-4-2(ESD) :±6kVContact discharge,±8kVAir discharge
	IEC(EN)61000-4-3(RS): 10V/m(80 ~ 1000MHz)
Industry Standards	IEC(EN)61000-4-4(EFT): Ethernet port: ±2kV CM//±1kV DM;
	IEC(EN)61000-4-5(Surge): Ethernet port: ±2kV CM//±1kV DM;
	IEC(EN)61000-4-6(Radio frequency conduction): 3V(10kHz ~
	150kHz),10V(150kHz ~ 80MHz)
	IEC(EN)61000-4-16(Common mode conduction): 30V cont. 300V,1s
	IEC(EN)61000-4-8
	Shock: IEC 60068-2-27
	Freefall: IEC 60068-2-32
	Vibration: IEC 60068-2-6
Power Characteristics	
Input voltage	DC12~52V(dual redundant power supply)
Connection terminals	Phoenix terminal
Power protection features	Supports dual redundant power supply, built-in overcurrent protection
	(4.0A), reverse connection protection
Operating Conditions	
Operating temperature	-40~+75℃
Storage temperature	-40~+75°C





Operating humidity	5%~95%(non-condensing)
Physical Characteristics	
Dimensions	Length*Width*Height:142.5x103.5x47.5mm
Mounting method	DIN rail or wall-mounted
Weight	0.64KG (excluding antennas and mounting accessories)
Device Safety and Reliability	
Protection rating and shell	IP40, metal shell
Certifications	Complies with FCC, CE, and ROHS standards
MTBF	≥300000 hours

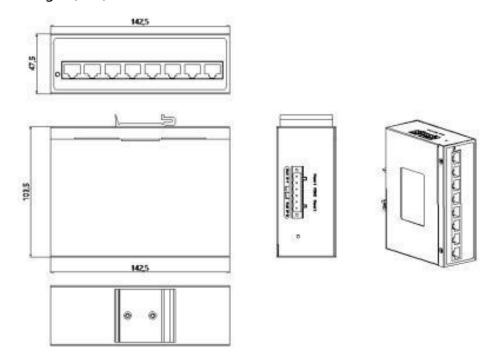
Product Application Diagram





Product Dimensions

Length*Width*Height (mm): 142.5*103.5*47.5mm



Ordering Information

Model Description	Describe
SW105G	5-Port Gigabit Ethernet Switch, Rail-mounted, DC12-52V,Normal
	Temperature (-40°C to 70°C)
SW108G	Non-Managed 8-Port Gigabit Ethernet Switch, Rail-mounted, DC12-
	52V,Normal Temperature (-40°C to 70°C)

