

# SW800-GE

Industrial Gigabit Ethernet Switch



## INTRODUCTION

The SW800-GE series of industrial Ethernet switches have eight 10/100/1000M RJ45 ports, excellent industrial field environment adaptability (mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.), and rugged metal housing protection level up to IP40. It supports dual redundant power input, low power consumption, and excellent heat dissipation. Which are ideal for applications that require reliable industrial Ethernet connections.

The SW800-GE has DIN-rail mounting, high-level EMI/EMC capabilities, and wide-temperature (-40 to 85°C). In addition to its compact size, the SW800-GE Series has passed a 100% burn-in test to ensure it will function reliably after it has been deployed. Suitable for industrial scenes such as intelligent transportation, rail transit, electric power, mining, metallurgy and green energy construction to build a cost-effective and stable communication network, etc.

## KEY FEATURES

- 10/100/1000BaseT(X) (RJ45 connector), Full/Half duplex mode, Auto MDI/MDI-X connection
- Store and Forward
- IP40-rated metal housing
- DC 12V-57V wide voltage, Reverse Polarity Protection, 4A Overcurrent Protection
- -40 to 85°C wide operating temperature range
- Industrial Grade, MTBF (Mean Time Between Failure) over 300,000 hours
- Lightning Surge Protection (power supply): 5000A (8/20 μ )

## SPECIFICATION

<b>Interfaces</b>	
Ethernet Ports	8×Gigabit Ethernet interface(RJ45), Auto MDI/MDI-X, Auto negotiation speed
Network Standards	IEEE802.3 - CSMA/CD IEEE802.3i - 10Base-T IEEE802.3u - 100Base-TX/FX IEEE802.3x for flow control IEEE802.3z - 1000Base-X IEEE802.3ab - 1000Base-T
<b>Switch Properties</b>	
Processing Type	Store and Forward
MAC Table Size	8 K
Packet Buffer Size	1 M
Forwarding Rate	11.904Mpps
Switching Capacity	16Gbps
Consumption	Less than 3W
<b>Power Supply</b>	
Connection	Industrial phoenix terminal block(s), dual redundant power input
Input Voltage	DC 12V-57V
Overload Current Protection	Support
Reverse Polarity Protection	Support
Lightning Surge Protection	5000A (8/20μ)
<b>Physical Characteristics</b>	
Dimensions	144 x 105 x 48 mm

Installation	DIN-rail mounting, Desktop
Weight	Around 640g
Housing	Metal, IP40
<b>Environmental Limits</b>	
Ambient Relative Humidity	5 to 95% (non-condensing)
Operating Temperature	-40 to 85°C (-40 to 185°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
<b>Standards/Certification</b>	
EMC	EN 55022 Class A
EMI	FCC Part 15 Subpart B Class A
EMS	IEC(EN)61000-4-2(ESD): ±8kV(contact), ±15kV(air) IEC(EN)61000-4-3(RS): 10V/m(80~1000MHz) IEC(EN)61000-4-4(EFT): PowerPort:±4kV; Data Port: ±2kV IEC(EN)61000-4-5(Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV IEC61000-4-6(CS): 10V(150kHz~80MHz) IEC(EN)61000-4-16(CM EMI) : 30V cont. 300V,1s
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6
Freefall	IEC 60068-2-32
Certification	FCC, CE, ROHS, ISO9001:2015
<b>MTBF</b>	
Time	More than 300,000 hours
<b>Warranty</b>	
Warranty Period	3 Years

## MODEL ORDERING INFORMATION

Model Name	Ethernet Ports	POE
SW500-E	5×10/100BaseT(X) (RJ45 connector)	×
SW500-GE	5×10/100/1000BaseT(X) (RJ45 connector)	×
SW500-EP	5×10/100BaseT(X) (RJ45 connector)	√
SW500-GEP	5×10/100/1000BaseT(X) (RJ45 connector)	√
SW800-E	8×10/100BaseT(X) (RJ45 connector)	×
SW800-GE	8×10/100/1000BaseT(X) (RJ45 connector)	×
SW800-EP	8×10/100BaseT(X) (RJ45 connector)	√
SW800-GEP	8×10/100/1000BaseT(X) (RJ45 connector)	√

## DIMENSIONS

Unit: mm

