

SW500-E

Industrial Ethernet Switch



INTRODUCTION

The SW500-E series of industrial Ethernet switches have five 10/100M 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 SW500-E has DIN-rail mounting, high-level EMI/EMC capabilities, and wide-temperature (-40 to 85°C). In addition to its compact size, the SW500-E 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

- 10/100BaseT(X) (RJ45 connector), Full/Half duplex mode, Auto MDI/MDI-X connection
- Store and Forward
- Compact size for easy installation
- 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

| | |
|---------------------------------|---|
| Interfaces | |
| Ethernet Ports | 5×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 |
| Switch Properties | |
| Processing Type | Store and Forward |
| MAC Table Size | 8 K |
| Packet Buffer Size | 1 M |
| Forwarding Rate | 7.44Mpps |
| Switching Capacity | 10Gbps |
| Consumption | Less than 3W |
| Power Supply | |
| 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) |
| Physical Characteristics | |
| Dimensions | 116 x 88 x 34 mm |
| Installation | DIN-rail mounting, Desktop |
| Weight | Around 360g |

| | |
|---|--|
| Housing | Metal, IP40 |
| Environmental Limits | |
| 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) |
| Standards/Certification | |
| 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 |
| MTBF | |
| Time | More than 300,000 hours |
| Warranty | |
| 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

