

Hardened Manageable Gigabit Ethernet Switch:
8 10/100BaseTX + 16 100BaseFX + up to 2 Gigabit ports
6 10/100BaseTX + 18 100BaseFX + up to 2 Gigabit ports

Hardened Switch 9224SF16/18

Designed for rugged environments, the EtherWAN Hardened Switch 9224SF16 comes with eight 10/100Mbps copper ports, sixteen 100Mbps fiber ports and up to two Gigabit ports. It functions at temperatures ranging from -34°C to +74°C. Fully manageable via SNMP, the 9224S Series Switches are designed to integrate 100Base networks into fiber optic Gigabit backbones with flexibility on a combination of fiber and copper ports. The 9224SF18 has a six 10/100Mbps TX ports, and eighteen 100Mbps fiber ports combination with the selection of zero, one, or two Gigabit ports of distances up to 40km



The Hardened Switch 9224SF Series supports advanced features such as 802.1Q VLAN, MAC-based Trunking, IP-Multicast IGMP Snooping, Spanning Tree for Redundancy, QoS for priority queuing, and port mirroring. Users may choose among SNMP/RMON, Web browser, or Telnet for remote monitoring and configuration. It also supports rate control, which allows users to set the maximum bandwidth on each port individually.

Via EtherWAN's TS900 Serial-to-Ethernet converters, devices with low-speed serial interface such as RS232, RS422, and RS485 can be connected to EtherWAN's 9200, 9224SF, and 9808 Ethernet-based TCP/IP networks. With TS900, Hardened Switch 9200 Series, and Hardened Switch 9808 Series, the addition of the 9224SF Series completes a total solution with flexibility for applications in industrial and rugged environments.

Key Features

- NEMA TS-1 and 2 Certified
- Rate Control for 100Mbps ports from 2Mbps to 100Mbps with 0.5Mbps increments.
- IEEE 802.1Q VLAN.
- IP Multicast Filtering through RFC 2236 IGMP Snooping.
- IEEE 802.1w Rapid Spanning Tree and IEEE 802.1D Spanning Tree protocols.
- RMON, SNMP, Web-based management, Telnet and TFTP
- Port-mirroring.
- IEEE 802.1p (Quality of Service) for 8-level transmission priorities.
- MAC-based Trunking, up to 3 groups of 4 ports.
- Auto Negotiation between 10/100/1000Mbps for 1000Base-T Gigabit, 10/100Mbps for 100Base-TX RJ45 ports.
- True non-blocking architecture and full wire-speed forwarding rate.
- Store-and-forward mechanism.
- 12K MAC address.
- Back-pressure and IEEE 802.3x compliant flow control.
- Front panel port status LEDs and reset button.
- Fiber Port 100Mbps Output Power: -5 ~ 0 dbm; Receiving Sensitivity: -20 dbm
- Fiber Port Gigabit Output Power: -5 ~ 0 dbm; Receiving Sensitivity: -20 dbm (-22 dbm for 20km)

 **ETHERWAN** EtherWAN Systems Inc.

Hardened Management Gigabit Ethernet Switch:
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Hardened Switch 9224SF16/18

Physical Specification

AC Input:

100~260VAC, 47~63Hz Internal Universal PSU

Dimensions:

W440mm x D235mm x H45mm (17.3" x 9.3" x 1.8")
 Standard 19" rack-mount size, one-unit-height

Input Fuse:

2A

Power Consumption:

9224SF16/9224SF18 - 48W;

Operating Temperature:

-34°C ~ 74°C (-30°F ~ 168°F)

Storage Temperature:

-34°C ~ 74°C (-30°F ~ 168°F)

Humidity:

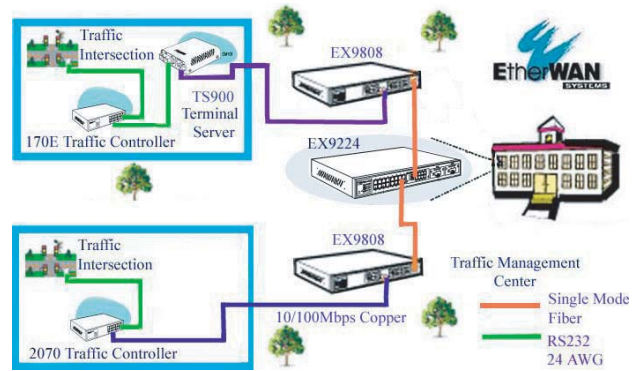
10% ~ 95% non-condensing

Net Weight:

3.4kg (7.5lb)

Emission Compliance:

CE & FCC



Ordering Information

9024SFCS*16:	Hardened Management Ethernet Switch with 8-port 10/100Base-TX and 16-port 100Base-FX SC Single-mode, 15km.
9124SFCS*16-XX**:	Hardened Management Gigabit Ethernet Switch with 8-port 10/100Base-TX; 16-port 100Base-FX SC Single-mode, 15km + 1 Gigabit port.
9224SFCS*16-XX**:	Hardened Management Gigabit Ethernet Switch with 8-port 10/100Base-TX; 16-port 100Base-FX SC Single-mode, 15km + 2 Gigabit ports.
9024SFCS*18:	Hardened Management Ethernet Switch with 6-port 10/100Base-TX and 18-port 100Base-FX SC Single-mode, 15km.
9124SFCS*18-XX**:	Hardened Management Gigabit Ethernet Switch with 6-port 10/100Base-TX; 18-port 100Base-FX SC Single-mode, 15km + 1 Gigabit port.
9224SFCS*18-XX**:	Hardened Management Gigabit Ethernet Switch with 6-port 10/100Base-TX; 18-port 100Base-FX SC Single-mode, 15km + 2 Gigabit ports.

*CS can be substituted by the following codes for Fast Ethernet Ports:

- C: SC Connectors, Multi-mode, up to 2km
- T: ST Connectors, Multi-mode, up to 2km
- CS: SC Connectors, Single-mode, up to 15km
- CM: SC Connectors, Single-mode, up to 40km
- CL: SC Connectors, Single-mode, up to 75km

*XX can be substituted by the following codes for Gigabit Ports:

- GT: 10/100/1000T/TX ports
- SX: 1000SX, SC Multi-Mode
- L1: 1000LX, SC Single-Mode, up to 10km
- L2: 1000LX, SC Single-Mode, up to 20km



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