



EtherWAN EG97203 Series Hardened Managed Ethernet Switch Installation Guide

[Home](#) » [EtherWAN](#) » EtherWAN EG97203 Series Hardened Managed Ethernet Switch Installation Guide 

Contents

- [1 EtherWAN EG97203 Series Hardened Managed Ethernet Switch](#)
- [2 Unpacking](#)
- [3 Select a Location](#)
- [4 Connect to the Data Ports](#)
- [5 Connect Power](#)
- [6 Front Panel LEDs](#)
- [7 USB Port](#)
- [8 Other Information](#)
- [9 Documents / Resources](#)
- [10 Related Posts](#)



EtherWAN EG97203 Series Hardened Managed Ethernet Switch



Unpacking

Open the carton and unpack the items. Your package should include:

- EG97023 Ethernet switch with RJ-45/SFP/USB dust covers installed
- 2 Mounting brackets
- 12 Mounting screws
- 1 RJ-45 Console cable
- 1 AC Power Cord (optional)
- Quick install guide

What Else You Need

- Shielded twisted pair cables and corresponding shielded RJ45 connectors
- Appropriate SFP cable and SFP modules for SFP ports

Select a Location

Equipment is intended for installation in Restricted Access Location

- Installation: Rack mount. Use the enclosed brackets and screws to mount the switch in an open or enclosed 19" rack.
- Select a power source within 6 feet (1.8 meters).
- Choose a dry area with ambient temperature between -40 and 75°C (Models EG97023-2VX (X = WR, CR, WR-CC or CR-CC), (CR and CR-CC use in US/CSA only)); -40 and 65 °C for (Models EG97023-2VX (X = CR or CR-CC)).
- Keep away from heat sources, sunlight, warm air exhausts, hot-air vents, and heaters.
- Be sure there is adequate airflow.

Connect to the Data Ports

The EG97023 has the following ports:

- 8 x 100/1000 BASE dual rate SFP ports
- 12 x 1/10G dual rate SFP+ ports
- 1 x RJ-45 management port with dust cover
- 1 x RJ-45 console port with dust cover
- 1 x USB console port
- 1 x USB backup/load configuration port

Use category 5e or higher UTP/STP cable for TX ports. For SFP and SFP+ ports, ensure that the same type of transceiver is used at both ends of the link and that the correct type of fiber cable is used.

Connect Power

Caution

Shock hazard: Connect to earth before connecting to supply

Power Input Interfaces

VWR, VWR-CC – 100-240VAC / 100-250VDC Redundant (Terminal Block)

VCR, VCR-CC – 100-240VAC Redundant (AC Inlet)

If your EG97023 comes with AC power cables, connect the cables into the power modules at the back of the switch. If your switch comes with an AC terminal block (no cable), then connect the switch to a suitable power supply using 10 to 18 AWG wire. Redundant power supply is supported. However, only one power input is required to operate the switch. Input voltage is 100 – 240 VAC.

Relay Output Alarm

The switch provides one dry contact for signaling of a user-defined power or port failure. The alarm relay default is “open” and forms a closed circuit when the event occurs. The relay output can be connected to an alarm signaling device. Relay output current is 30VDC / 0.6A.

NOTE: The initial normal state of the relay is open, and if switch loses *all* power, then this state will come into effect. This is important to remember when using the relay to indicate a power failure. The relay will close in an alarm state when there is redundant power input and an alarmed input fails.

Front Panel LEDs

LED Panel Layout

Power 1 & 2

Green Power on, Off No power

Link/Act

Green: Network connection established

Flashing: Port sending or receiving data

Red: Link down or power down

Reset Button: Press and hold for less than 10 seconds to reboot the switch. Press and hold for more than 10 seconds to reset the switch to the default password.

Console Configuration

Connect to the switch using the enclosed Ethernet cable to connect a serial port on a PC to the RJ-45 Management port located on the front panel next to the USB port. The IP address of VLAN 1 is 192.168.1.10.

Configuration via CLI

If using a terminal-emulation program such as Putty, configuration settings are: Baud rate: 115,200bps, Data bits: 8, Parity: none, Stop bit: 1, Flow control: none.

The default login name is “root,” no password.

Web Configuration

Log in to the switch by launching a web browser and entering 192.168.1.10 in the address bar. Enter the default login ID: root (no password) and click “Login.”

USB Port

The switch is equipped with one USB port (Type A connector) for configuration file and syslog backup. The USB port can be used to save the configuration and Syslog to a (FAT32) USB storage device.

Plug the device into the USB port, and use the “Save Configuration” command in the web interface, or “copy running-config startupconfig” in the CLI. Use the “Export Logs to USB” command in the web interface, or “export logs” in the CLI.

Other Information

The power cord must be connected to a properly earth grounded outlet.

Rack Mount Instructions – The following or similar rack-mount instructions are included with the installation instructions:

A	Elevated Operating Ambient – If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T _{ma}) specified by the manufacturer.
B	Reduced Air Flow – Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
C	Mechanical Loading – Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
D	Circuit Overloading – Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
E	Reliable Earthing – Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips). The socket-outlet shall be installed near the equipment and shall be easily accessible.

- Do not disable the power cord grounding plug. The grounding plug is an important safety feature
- Plug the power cord into a grounded (earthed) electrical outlet that is easily accessible at all times.
- The means of power cord or adapter should be connected to a socket-outlet with earthing connection.
- This equipment is intended to be used in a restricted access location and be used by a qualified person.
- This equipment is not suitable for use in locations where children are likely to be present.
- The power cord shall be IEC 60227 certified, rated 0.75 mm² x 3C or UL recognized minimum 18AWG

AC Inlet



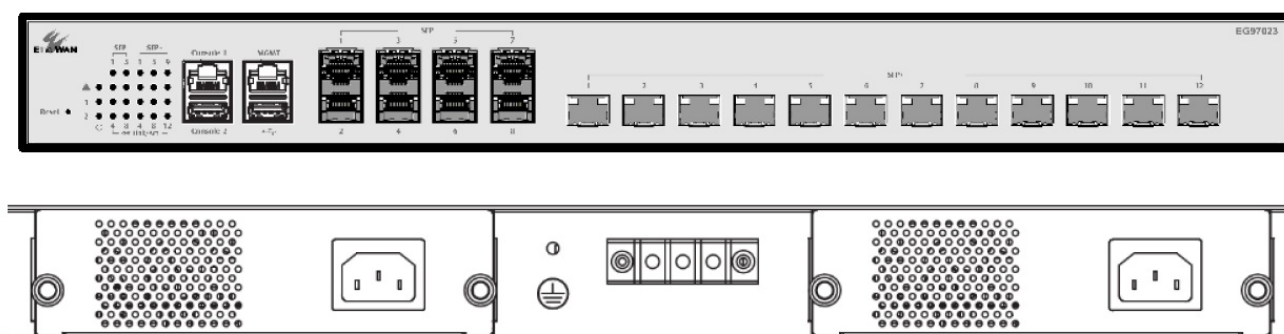
All power connection wiring should be made by a qualified electrician in accordance with National Electrical Code, ANSI/NFPA 70 and Canadian Electrical Code, Part I, CSA C22.1. An IEC certified or UL listed single-phase type circuit-breaker, rated maximum 20A, shall be installed between mains circuit and equipment.

Thumbscrews should be tightened with a tool after both initial installation subsequent access to the panel.

Note: This equipment must use UL recognized Laser Class 1 optical transceiver.

This equipment is intended to be used in a restricted access location and be used by a qualified person.

This equipment is not suitable for use in locations where children are likely to be present.



Caution

This product relies on the building's installation for short-circuit (overcurrent) protection and power disconnection.

Ensure that the protective device is rated MAX 20 A, 250 V and shall be easily accessible.

The performance levels of the field wiring terminals provided for power supply connection:

- Range of wire sizes: 10 – 18 AWG
- Conductor material: copper wire only
- Tightening torque(s): 14 In.-Lb

The rating of the power wire used must be at least 10s.c.

USE COPPER CONDUCTORS ONLY.

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

WARNING – Explosion hazard. Do not disconnect the terminal block while the circuit is live or unless the area is known to be free of ignitable concentrations.

For repair or maintenance needs, contact Et herWAN directly.

If any items are missing or damaged, notify your EtherWAN representative.

If possible, save the carton and packing material in case you need to ship or store the switch in the future. The full product manual can be downloaded from:

www.etherwan.com



Manufacturer information: ETHERWAN SYSTEMS, INC.
33F, No. 93, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City, 221 Taiwan

Documents / Resources



[EtherWAN EG97203 Series Hardened Managed Ethernet Switch](#) [pdf] Installation Guide
EG97023, EG97203 Series Hardened Managed Ethernet Switch, EG97203 Series, Hardened
Managed Ethernet Switch, Ethernet Switch, Switch