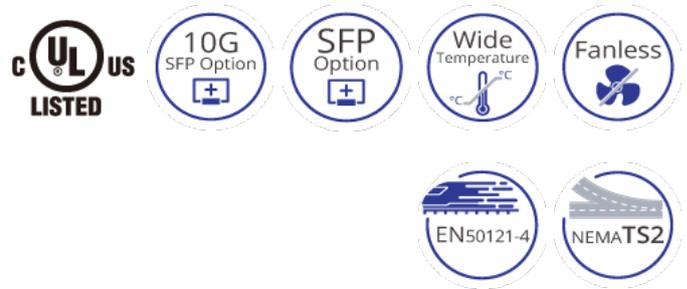


# EG97023 Series test2

12-port 10 Gigabit and 8-port Gigabit Hardened Managed Layer 3 Switch



## Overview

### [When should you use an Industrial Layer 3 switch?](#)

EtherWAN's EG97023 is a hardened layer 3 core/distribution switch, designed to support high bandwidth routing in harsh environments. Equipped with 12 ports capable of up to 10-gigabit speed each and 8 additional gigabit ports, along with a full capacity switching bandwidth, the EG97023 provides the optimal solution for connecting multiple networks. In addition to layer 3 benefits such as improved fault isolation, simplified security management, network traffic segregation, lower network latency, and simplified troubleshooting, the EG97023 is hardened and fan-less, designed to last and operate through the harshest environments. Backed by a limited lifetime warranty, the EG97023 provides flexibility, ultra-fast speeds, and reliability to support networks in urban infrastructure, transportation, security and other areas where connectivity is crucial.

EtherWAN — "When Connectivity is Crucial."

## Highlights

### + High Density, High Bandwidth Fiber Solution

Multiple ports with ultra-fast 10-gigabit speeds running at full capacity

12 dual-rate 10-gigabit SFP+ ports for fiber connections into the core/hub

8 dual-rate gigabit SFP ports for fiber connections to the nodes/edge

### + Hardened-Grade for Non-Ventilated & Harsh Environments

Wide operating temperature range -40 to 75°C (-40 to 167°F)

Fan-less operation

Thermal shock and electrical noise resistance

### + Full Layer 3 Functionality

Optimized routing at hardware level

Improved fault isolation

Layer 3 capability connects networks together

### + Compliant Products

NEMA TS2 rated

UL certified for safety

TAA/NDAA compliant for government projects

### + Management/Security Features

Port Security, Authentication, and Access Control

Storm Detection, IP ACL, and System Logging  
Configure and monitor with eVue™

### + Lifetime Warranty

Complimentary Technical Support

Free Firmware Upgrades

## Features

### + Interface

CLI, Telnet, Web GUI

### + Management

Firmware upgrade

Configuration backup

DHCP Server/Client

RMON (Remote Monitoring)

Port Mirroring

NTP (Network Time Protocol) synchronization

LLDP (Link Layer Discovery Protocol)

IPv4/IPv6

SNMP v1/v2c/v3

### + Security

MAC Address filtering

Enable/Disable port

Storm control

System logging

Remote authentication through RADIUS and TACACS+

Complex password support

Multi-user login and privileged access management

SSH for CLI and Telnet security

SSL and HTTPS for web security

ACL (Access Control List, up to 4096 entries)

## + Layer 2 Features

### + Quality of Service (QoS)

Priority Queues: 8 queues per port

Traffic classification based on IEEE 802.1p CoS (Cost of Service), DSCP (Differentiated Services Code Point), WRR (Weighted Round Robin), and strict mode

Rate Limiting (Ingress/Egress)

Auto-negotiation for port speed and duplex

Flow Control

IEEE 802.3x full duplex mode

Back-pressure half duplex mode

#### Redundant Protocols

IEEE 802.1D STP

IEEE 802.1w RSTP

IEEE 802.1s MSTP

#### VLANs

IEEE 802.1Q Tag VLANs

GVRP

GMRP

#### Link Aggregation

Static Trunk

IEEE 802.3ad LACP

IGMP Snooping v1/v2/v3

## + Layer 3 Features IPv4

#### Unicast Routing

Static Routing (1K)

RIP v1/v2

OSPF v2

#### Multicast Routing

PIM-DM

PIM-SM

#### Routing Redundancy

VRRP

## + Layer 3 Features IPv6

#### IPv6 Unicast Routing

RIPng

OSPF v3

### IPv6 Multicast Routing

PIM6-DM

PIM6-SM

### IPv6 Routing Redundancy

VRRP v3

## + Software Properties and Performance

### Switching Fabric

256Gbps

### Forwarding Rate

190.4Mpps

### Total VLAN Entries

256 (4096 VID)

### Jumbo Frame Size

12KB

### MAC Table Size

24K

### Packet Buffer Memory

32M bits

### L2 Routes

Up to 24,000 unicast and 1,000 multicast routes

### L3 IPv4 Routes

Up to 8,000 unicast and 8,000 multicast routes

### L3 IPv6 routes

Up to 2,000 unicast routes

## Specifications

### + Interface

#### Ethernet

8 x 100/1000 BASE-SFP

12 x 1G/10G SFP+

#### Console

1 x RJ45, 1 x USB

#### Config Backup

1 x USB (Type A Connector)

#### Alarm Contact

Relay output, current capacity

0.6A/30VDC

#### LED Indicators

Per Unit: Power 1, Power 2, Alarm

Per Port: Link/Activity

### + Technology

#### Standards

IEEE 802.3u 100BASE-TX/100BASE-FX

IEEE 802.3ab 1000BASE-T

IEEE 802.3ad link aggregation control

IEEE 802.3z 1000BASE-SX/1000BASE-LX

IEEE 802.3ae 10Gbit/s Ethernet over fiber for LAN

IEEE 802.3an 10GBASE-T Ethernet over copper twisted pair cable

IEEE 802.3x full duplex and flow control

IEEE 802.1D STP

IEEE 802.1p QoS

IEEE 802.1Q Tag VLANs

IEEE 802.1s MSTP

IEEE 802.1w RSTP  
IEEE 802.1x PNAC  
IEEE 802.1ab LLDP

#### **Forward/Filtering Rate**

148,810pps for 100Mbps  
1,488,100pps for 1000Mbps  
14,881,000pps for 10Gbps

#### **Processing Type**

Store-and-forward  
Auto-negotiation  
Half-duplex back-pressure and fullduplex flow control  
Auto MDI/MDIX

#### **System Memory**

4Gb DDR3 SDRAM

#### **Flash Storage**

2GB

### **+ Power**

#### **Input**

VWR: 100-240VAC Redundant (Terminal block)  
VCR: 100-240VAC Redundant (AC Inlet)

#### **Power Consumption**

75W Max

### **+ Physical**

#### **Casing Material**

Metal

#### **Dimensions**

442 x 325 x 44mm (W x D x H)  
17.4" x 12.8" x 1.73"

**Weight**

6.2kg (13.7lbs)

**Installation Type**

Rack mounting

**+ Environmental****Operating Temp.**

-40 to 75°C (-40 to 167°F)

**Storage Temp.**

-45 to 85°C (-49 to 185°F)

**Relative Humidity**

5% to 95% (non-condensing)

**MTBF**

585224 Hours at 25°C

**+ Regulatory****ISO**

Manufactured in ISO-9001 facility

**EMC**

EN 55032

**EMI**

FCC Part 15B Class A

VCCI Class A

EN 61000-6-4

**EMS**

EN 61000-4-2 (ESD)

EN 61000-4-3 (Radiated RFI)

EN 61000-4-4 (Burst)

EN 61000-4-5 (Surge)

EN 61000-4-6 (Induced RFI)

EN 61000-4-8 (Magnetic field)

**Safety**

UL 62368-1

**Traffic**

NEMA TS2

**Rail**

EN 50121-4

**Vibration**

IEC 60068-2-6

**Shock**

IEC 60068-2-27

**Free Fall**

FED STD 101C Method 5007.1

**+ Warranty**

**Length**

Limited Lifetime

**Details**

[www.etherwan.com/support/warranty-policy](http://www.etherwan.com/support/warranty-policy)

**+ What's Included**

**Device**

Ethernet Switch

**Cables**

1 Console Cable

**Power**

2 AC Power Cord

**Installation**

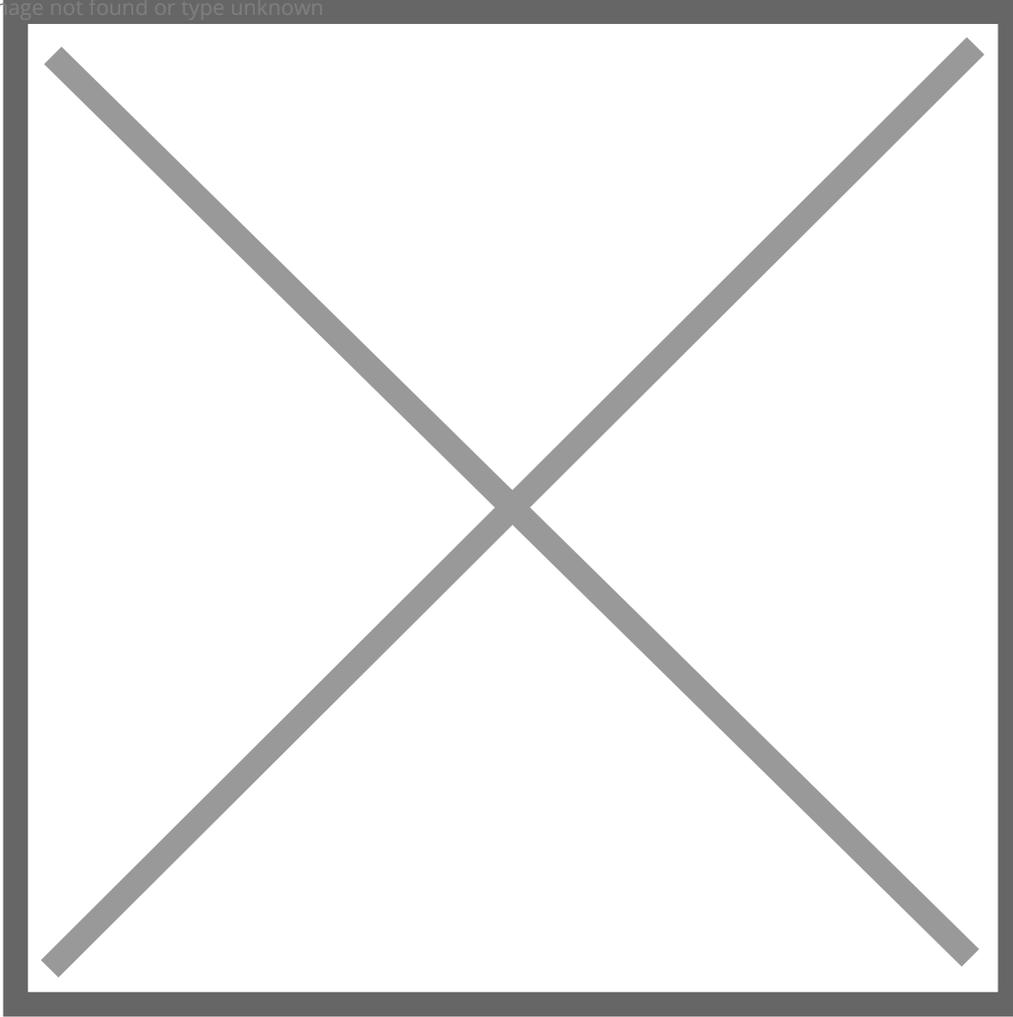
Mounting Brackets, Screws

**Documentation**

Quick Install Guide

## Dimensions

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## Application

EG97023 Series: 20-Port Hardened Managed 10-Gigabit Layer 3 Switch

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## Software

<b>Network Management</b>	<a href="#">eVue™ Network Configuration and Monitoring Tool</a>
<b>Network Discovery</b>	<a href="#">eLite™ Network Discovery and IP Configuration Tool</a>

EtherWAN eVue  
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EtherWAN eLite

## Ordering Info

### + Model

**EG97023-2VZ** 8-port 100/1000BASE SFP + 12-port 1/10G SFP+ Hardened Managed Layer 3 Ethernet Switch

### + Power Input Interface (Z)

<b>WR</b>	100-240VAC Redundant (Terminal Block)
<b>CR</b>	100-240VAC Redundant (AC Inlet)

### + Accessories

<b>Hardened SFP Modules</b>	<a href="http://www.etherwan.com/products/sfp-fiber-transceiver">www.etherwan.com/products/sfp-fiber-transceiver</a>
<b>Power Modules</b>	Spare Power Module for EG97023 series, 100-240VAC PSU (85W), AC Inlet



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