

EG97244 Series

24-port Gigabit and 4-port 1G/10G SFP+ Hardened Managed Layer 3 Switch



Overview

When should you use an Industrial Layer 3 switch?

EtherWAN's EG97244 is a hardened layer 3 switch/router, which allow for connecting networks. With multiple gigabit SFP connections for fiber along with a 10-gigabit backbone, the EG97244 provides flexibility, speed, and reliability to support networks for urban infrastructure, transportation, security, and other areas where connectivity is crucial.

EtherWAN — "When Connectivity is Crucial."



Highlights

+ High Bandwidth and Highly Flexible Ports + Compliant Products

16 x 100/1000M dual-rate SFP ports for multiple fiber connections

4 x 1/10G dual-rate SFP+ ports for connections into the hub/core 8 x 10/100/1000BASE-T RJ45 ports

+ Hardened-Grade for Non-Ventilated & Harsh Environments

Wide operating temperature range -40 to 75°C (-40 to 167°F) Fan-less operation High impact, thermal shock, and electrical noise resistance

+ Full Layer 3 Functionality

Optimized routing at hardware level Improved fault isolation Layer 3 capability connects networks together TAA Compliant for government projects NEMA TS2 rated UL certified for safety

+ Management/Security Features

Port control Storm detection and control Configure and monitor with eVue™ and eLite™

+ Lifetime Warranty

Complimentary Technical Support Free Firmware Upgrades Includes ECN and EOL notices



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

+ Layer 3 Features IPv4

Unicast Routing Static Routing (1K) RIP v1/v2 OSPF v2

Multicast Routing PIM-DM PIM-SM PIM-SSM

Routing Redundancy VRRP

+ 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 3 Features IPv6

IPv6 Unicast Routing RIPng OSPF v3

IPv6 Multicast Routing PIM6-DM PIM6-SM

IPv6 Routing Redundancy VRRP v3



+ 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)

+ Layer 2 Features

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

+ Software Properties and Performance

Switch IC Capability 320Gbps

Forwarding Rate 238.08Mpps

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 10/100/1000BASE-T 16 x 100/1000BASE SFP 4 x 1G/10G SFP+

Console 1 x RJ45

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

+ Power

Input VTR: ±48VDC Redundant (Terminal block) VWR: 100-240VAC Redundant (Terminal block) VCR: 100-240VAC Redundant (AC Inlet)

Power Consumption 75W Max

+ Physical

Casing Material Aluminum

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

Weight 5.6kg (12.3lbs)

Installation Type Rack mounting

IP Rating

+ 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 1,143,890 hours

+ Warranty

Length Limited Lifetime

Details www.etherwan.com/support/warranty-policy

+ What's Included

Device Ethernet Switch

Cables 1 Console Cable

Power 1 AC Power Cord

Installation Mounting brackets, screws

Documentation Quick install guide



+ Technology

Standards

IEEE 802.3 10BASE-T 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 802.3x full duplex and flow control IEEE 802.1D STP IEEE 802.1p QoS IEEE 802.1p QoS IEEE 802.1g Tag VLANS IEEE 802.1s MSTP IEEE 802.1w RSTP IEEE 802.1x PNAC IEEE 802.1ab LLDP

Forward/Filtering Rate

14,880pps for 10Mbps 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 full-duplex flow control Auto MDI/MDIX

System Memory 4Gb DDR3 SDRAM

Flash Storage 2GB

+ 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

Traffic NEMA TS2

Rail EN 50121-4

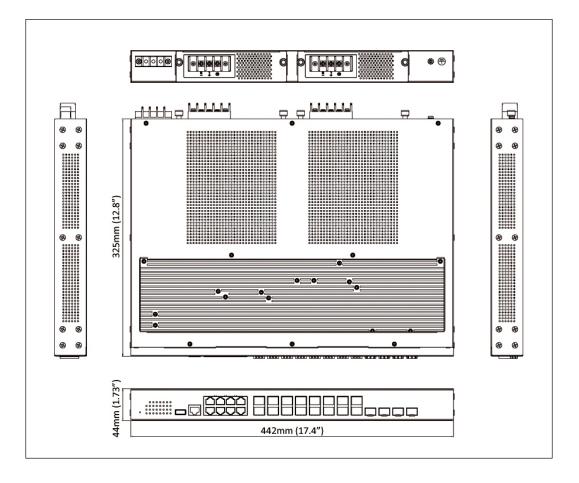
Vibration IEC 60068-2-6

Shock IEC 60068-2-27

Free Fall FED STD 101C Method 5007.1

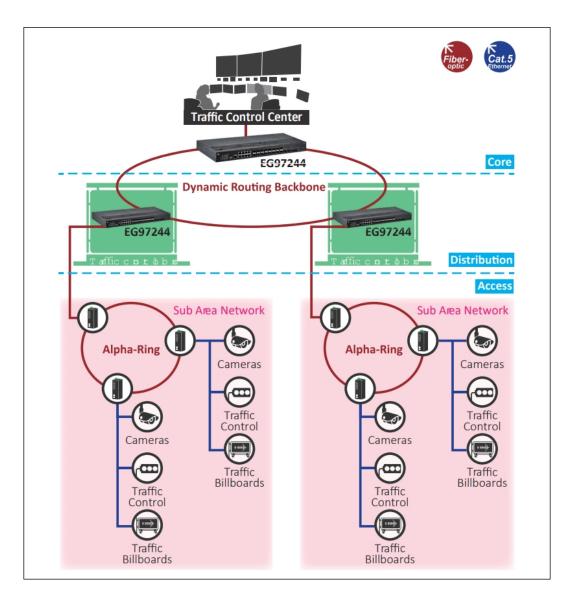


Dimensions





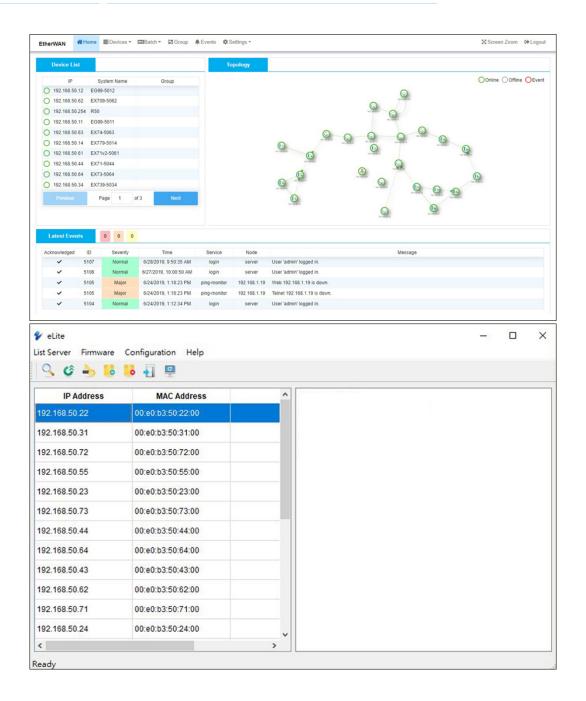
Application





Software

Network ManagementeVue™ Network Configuration and Monitoring ToolNetwork DiscoveryeLite™ Network Discovery and IP Configuration Tool





Ordering Info

+ Model

EG97244-4VZ	8-port 10/100/1000BASE-T + 16-port 100/1000BASE SFP + 4-port 1/10G SFP+ Hardened
	Managed Layer 3 Ethernet Switch

+ Power Input Interface (Z)

TR	±48VDC Redundant (Terminal Block)
WR	100-240VAC Redundant (Terminal Block)
CR	100-240VAC Redundant (AC Inlet)

+ Accessories

Hardened 100BASE SFP Modules	www.etherwan.com/products/sfp-fiber-transceiver
Hardened Gigabit SFP Modules	www.etherwan.com/products/sfp-fiber-transceiver
Power Supplies	www.etherwan.com/products/power-supplies/power-adapters
EX41-2750A240	Power Module for EG97244 series, 100-240VAC PSU (75W), AC Inlet



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