EG97000 Series



28-Port Hardened Managed Layer 3 Switch









Product Highlights

High Bandwidth and Highly Flexible Ports

- 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

Compliant Products

- TAA Compliant for government projects
- NEMA TS2 rated
- UL certified for safety

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

Management/Security Features

- Port control
- Storm detection and control
- Configure and monitor with eVue[™] and eLite[™]

Full Layer 3 Functionality

- Optimized routing at hardware level
- Improved fault isolation
- Layer 3 capability connects networks together

Lifetime Warranty

- Complimentary Technical Support
- Free Firmware Upgrades
- Includes ECN and EOL notices

Overview

EtherWAN's EG97000 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 EG97000 provides flexibility, speed, and reliability to support networks for urban infrastructure, transportation, security, and other areas where connectivity is crucial.

Ordering Information

Model

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

Software 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)	
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)	

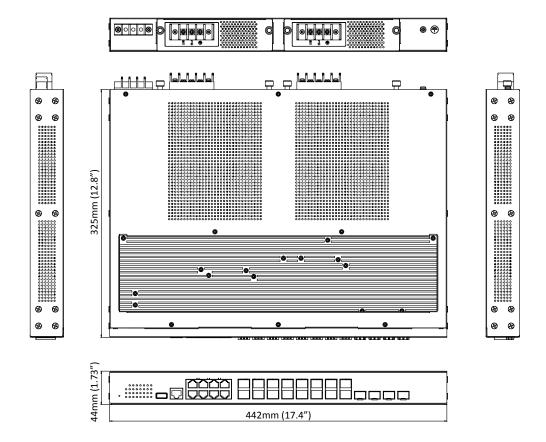
Flow Control IEEE 802.3x full duplex mode Back-pressure half duplex mode
IEEE 802.1D STP IEEE 802.1w RSTP IEEE 802.1s MSTP
IEEE 802.1Q Tag VLANs GVRP GMRP
Static Trunk IEEE 802.3ad LACP
+
Static Routing (1K) RIP v1/v2 OSPF v2
PIM-DM PIM-SM PIM-SSM
VRRP
+
RIPng OSPF v3
PIM6-DM PIM6-SM
VRRP v3
Performance +
128Gbps
95.23Mpps
256 (4096 VID)
12KB
24K
32M bits
Up to 24,000 unicast and 1,000 multicast routes
Up to 8,000 unicast and 8,000 multicast routes

Hardware Specifications

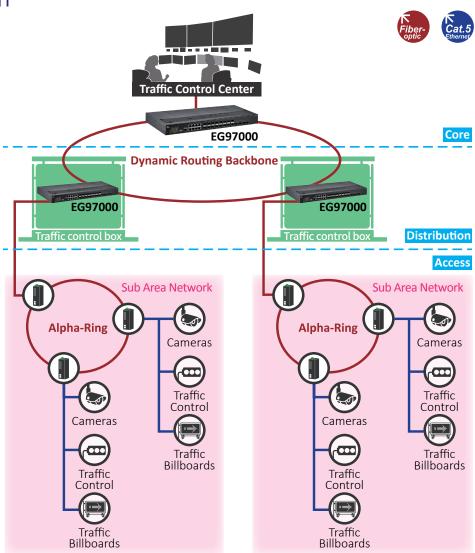
Interface	+	
Ethernet	8 x 10/100/1000BASE-T 16 x 100/1000BASE-SFP 4 x 1G/10G SFP+	
Console	1 x RJ45	
Config Backup	1 x USB (Type A Connector)	
Alarm Contact	Relay output, current capacity 0.6A/30VDC	
LED Indicators	Per Unit: Power 1, Power 2, Alarm Per Port: Link/Activity	
Technology	+	
Standards	IEEE 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 contro 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	14,880pps for 10Mbps 148,810pps for 100Mbps 1,488,100pps for 1000Mbps 14,880,952pps 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	
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	Hetal	
Dimensions	442 x 325 x 44mm (W x D x H) 17.4" x 12.8" x 1.73"	
Weight	5.6kg (12.3lbs)	
	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	1,143,890 hours
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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
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

Dimensions

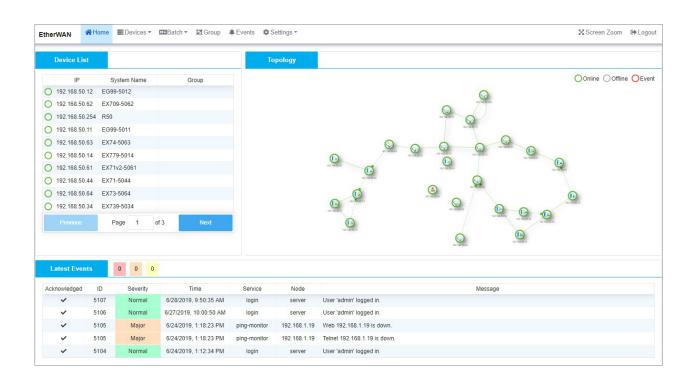


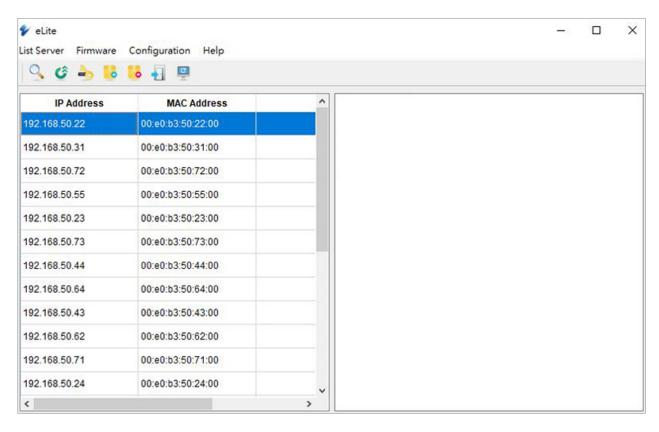
Application



Software

Network Management	eVue™ Network Configuration and Monitoring Tool
Network Discovery	eLite™ Network Discovery and IP Configuration Tool





Accessories

Hardened 100BASE SFP Modules				
www.etherwan.com	/products/sfp-fiber-transceiver			
Hardened Gigabit	SEP Modules			
www.etnerwan.com	/products/sfp-fiber-transceiver			
Power Supplies				
www.etherwan.com adapters	/products/power-supplies/power-			
Power Modules		+		
EX41-2750A240	Power Module for EG97000 serie 100-240VAC PSU (85W), AC Inlet	es,		