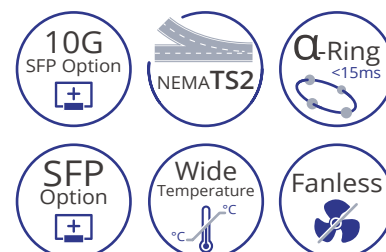


EX77964

Lite L3 Hardened Managed 24-port Gigabit and 4-port 1G/10G SFP+ Ethernet Switch



Product Highlights

➔ Hardened-Grade for Non-Ventilated & Harsh Environments

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

➔ High Bandwidth and Versatility

- Up to 24 10/100/1000BASE-T(X) ports
- Up to 8 dual-rate 100/1000BASE SFP ports
- 4 1G/10G SFP+ uplink ports

➔ Lite Layer 3 Functionality

- Static routing, RIP v1/v2, and OSPF support
- Redundancy with VRRP
- Reduces amount of broadcast traffic

➔ Support

- Complimentary Technical Support
- Free Firmware Upgrades
- Limited Lifetime Warranty

Overview

EtherWAN's EX77964 is a 28-Port gigabit hardened rack mounted managed Ethernet switch platform. Equipped with 16 gigabit copper, 8 gigabit copper/SFP combo and 4 10-gigabit SFP+ ports, the EX77964 provides flexibility, speed, and reliability to support networks for urban infrastructure, transportation, security, power substations, and other areas where connectivity is crucial.

Ordering Information

Model

EX77964-8VB	16-port 10/100/1000BASE-TX + 8-port 100/1000BASE SFP Combo + 4-port 1G/10G SFP+ (12-24VDC)
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Software Features

Interface	+
CLI, Telnet and Web Browser	
SNMP v1/v2c/v3	
Management	+
Firmware upgrade	
Configuration backup via TFTP	
DHCP Server/Client	
RMON (Remote Monitoring)	
Port Mirroring: TX/RX and both	
NTP (Network Time Protocol) synchronization	
IEEE 802.1ab LLDP (Link Layer Discovery Protocol)	
IPv4/IPv6	
Security	+
MAC Address Filtering	
Enable/Disable port	
Storm control (Broadcast and multicast types)	
IEEE 802.1x LAN Access Control	
Remote authentication through RADIUS	
SSH for CLI and Telnet security	
SSL for web security	
ACL (Access Control List)	

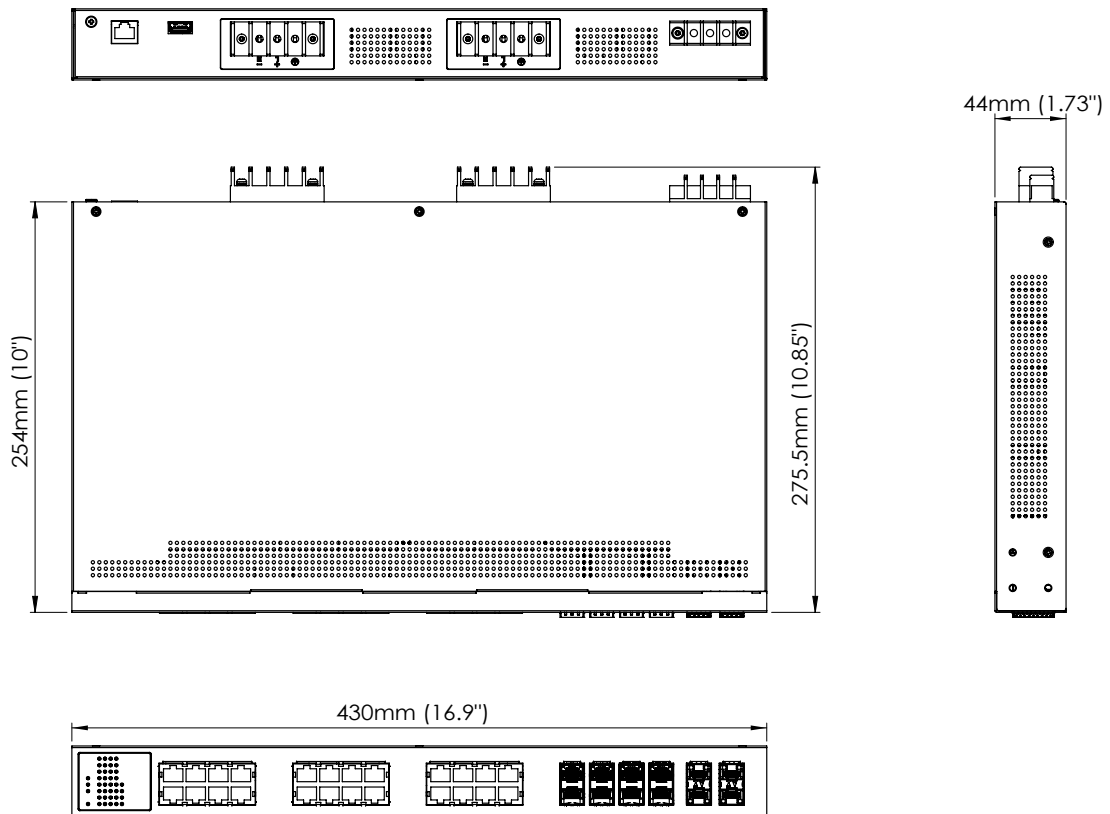
Quality of Service (QoS)	+
Priority Queues: 4 queues per port	
Traffic classification based on IEEE 802.1p CoS, DSCP, WRR and strict mode	
Rate Limiting (Ingress/Egress)	
Layer 2 Features	+
Auto-negotiation for port speed and duplex mode	Flow Control IEEE 802.3x Full duplex mode Back-Pressure half duplex mode
Redundant Protocols	IEEE 802.1D STP IEEE 802.1w RSTP IEEE 802.1s MSTP EtherWAN's Alpha-Ring network fault recovery (<15ms) and Alpha-Chain
VLANs	IEEE 802.1Q Tag VLANs (128 groups, 4096 VID) GVRP GMRP
Link Aggregation	Static Trunk (4 groups, support MAC base) IEEE 802.3ad LACP
IGMP Snooping v1/v2/v3	
Layer 3 Features	+
IP Packet Routing	Maximum number of routes in hardware: 64 entries Static Routing RIP v1/v2 OSPF v2
Routing Redundancy	VRRP

Hardware Specifications

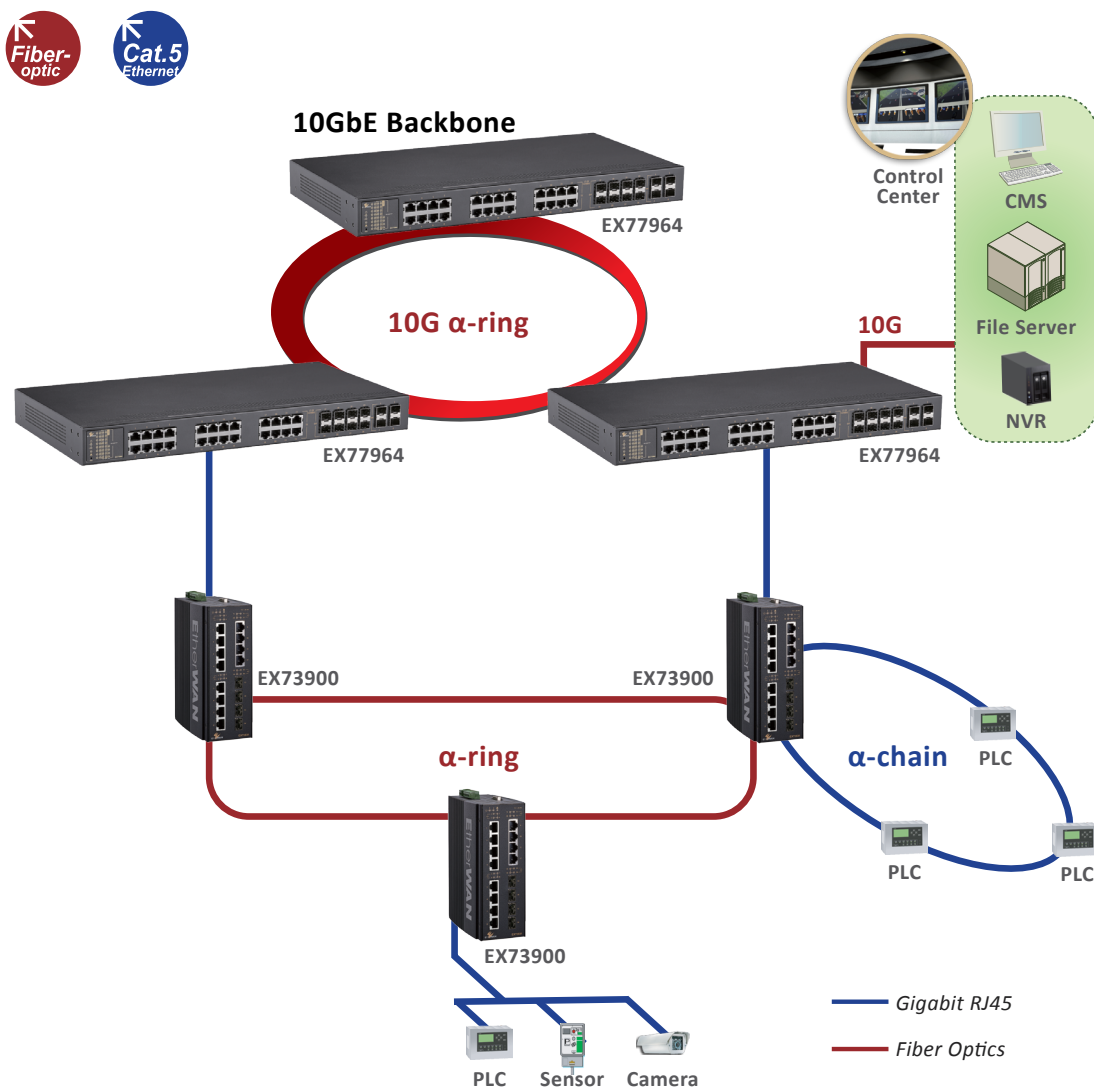
Interface +	
Ethernet	16 or 24 x 10/100/1000BASE-T(X) 8 x 100/1000BASE SFP 4 x 10G SFP+
Console	1 x RJ45 RS-232
Config Backup	1 x USB (Type A Connector)
Alarm Contact	1 x Relay output, current capacity 0.6A/30VDC
LED Indicators	Per Unit: Power Per Port: Link/Activity (Green)
Technology +	
Standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/100BASE-FX IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-SX/1000BASE-LX IEEE 802.3x Full duplex and flow control IEEE 802.1p QoS IEEE 802.1Q Tag VLANs IEEE 802.1w RSTP IEEE 802.1x PNAC
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 IEEE 802.3x Full-duplex flow control Auto MDI/MDIX
Address Table Size	16K MAC Addresses
Power +	
Input	12-24VDC Redundant (Terminal block)
Power Consumption	31.08W
Physical +	
Casing Material	Metal
IP Rating	IP30
Dimensions	430 x 254 x 44.2mm (W x D x H) 16.9" x 10" x 1.74"
Weight	3.29Kg (7.25lbs)
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)
Regulatory +	
ISO	Manufactured in ISO-9001 facility
EMI	FCC Part 15B Class A VCCI Class A EN 61000-6-4 EN 61000-3-2 EN 61000-3-3
EMS	EN 61000-6-2 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
Vibration	IEC 60068-2-6 Fc
Shock	IEC 60068-2-27 Ea
Free Fall	FED STD 101C Method 5007.1
Industrial	NEMA TS2
Warranty +	
Length	Limited Lifetime
Details	www.etherwan.com/support/warranty-policy
What's Included +	
Device	Ethernet Switch
Cables	1 Console Cable
Installation	Mounting brackets
Documentation	Quick Install Guide

Dimensions



Application



Software

Network Management eVue™ Network Configuration and Monitoring Tool

Network Discovery eLite™ Network Discovery and IP Configuration Tool

EtherWAN [Home](#) [Devices](#) [Batch](#) [Group](#) [Events](#) [Settings](#) [Screen Zoom](#) [Logout](#)

Device List

	IP	System Name	Group
☒	192.168.50.12	EG99-5012	
☒	192.168.50.62	EX709-5062	
☒	192.168.50.254	R50	
☒	192.168.50.11	EG99-5011	
☒	192.168.50.63	EX74-5063	
☒	192.168.50.14	EX779-5014	
☒	192.168.50.61	EX71v2-5061	
☒	192.168.50.44	EX71-5044	
☒	192.168.50.64	EX73-5064	
☒	192.168.50.34	EX739-5034	

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Topology

Online Offline Event

Latest Events 0 0 0

Acknowledged	ID	Severity	Time	Service	Node	Message
✓	5107	Normal	6/28/2019, 9:50:35 AM	login	server	User 'admin' logged in.
✓	5106	Normal	6/27/2019, 10:00:50 AM	login	server	User 'admin' logged in.
✓	5105	Major	6/24/2019, 1:18:23 PM	ping-monitor	192.168.1.19	Web 192.168.1.19 is down.
✓	5105	Major	6/24/2019, 1:18:23 PM	ping-monitor	192.168.1.19	Telnet 192.168.1.19 is down.
✓	5104	Normal	6/24/2019, 1:12:34 PM	login	server	User 'admin' logged in.

eLite [List Server](#) [Firmware](#) [Configuration](#) [Help](#)

IP Address	MAC Address
192.168.50.22	00:e0:b3:50:22:00
192.168.50.31	00:e0:b3:50:31:00
192.168.50.72	00:e0:b3:50:72:00
192.168.50.55	00:e0:b3:50:55:00
192.168.50.23	00:e0:b3:50:23:00
192.168.50.73	00:e0:b3:50:73:00
192.168.50.44	00:e0:b3:50:44:00
192.168.50.64	00:e0:b3:50:64:00
192.168.50.43	00:e0:b3:50:43:00
192.168.50.62	00:e0:b3:50:62:00
192.168.50.71	00:e0:b3:50:71:00
192.168.50.24	00:e0:b3:50:24:00

Accessories

Hardened 100BASE SFP Modules	+
www.etherwan.com/products/sfp-fiber-transceiver	
Hardened Gigabit and 10-Gigabit SFP Modules	+
www.etherwan.com/products/sfp-fiber-transceiver	
DIN-Rail Power Supplies	+
www.etherwan.com/products/din-rail-power-supply (*)	
*Recommended Power Supply	+
HDR-60-24 60W 24VDC DIN-Rail Power Supply	
EB-232	+
Configuration Backup and Restoration Tool	



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встраиваемых систем, IoT,
систем визуализации,
энергоучета

