

ED3575

Hardened Managed Ethernet Switch/Extender



Overview

EtherWAN's ED3575 is a hardened managed Ethernet switch and extender combo. Equipped with Ethernet, SFP, and copper extender ports, the ED3575 bridges the gap between modern and legacy infrastructures, providing the flexibility and versatility for networks in urban infrastructure, transportation, security, and other areas where connectivity is crucial.

EtherWAN — "When Connectivity is Crucial."

Highlights

+ Versatility

- Managed platform with dual functions as a switch and an extender
- Dual SFP ports for fiber connectivity
- Dual VDSL2 ports extend data up to 2.2km using legacy copper pair wire

+ Management/Security Features

- Port control
- 802.1x port-based network access control and remote authentication through RADIUS and TACACS+
- Configure and monitor with eVue™ and eLite™

+ 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

+ Support

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

Features

+ Interface

CLI, Telnet, Web GUI

+ Management

Firmware upgrade
Configuration backup
DHCP Server/Client
RMON (Remote Monitoring): group 1, 2, 3, 9
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
IEEE 802.1x LAN Access control
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)

+ 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
EtherWAN's Alpha-Ring network fault recovery

VLANs
IEEE 802.1Q Tag VLANs
GVRP
GMRP

Link Aggregation
Static Trunk (4 groups)
IEEE 802.3ad LACP

IGMP Snooping v1/v2/v3

+ Switch Properties and Performance

Switching Fabric
5.6Gbps

Total VLAN Entries
256 (4096 VID)

MAC Table Size
8K

Packet Buffer Memory
2M bits

Specifications

+ Interface

Ethernet

6 x 10/100BASE-TX
2 x 10/100/1000BASE-T and 100/1000BASE-X SFP
Combo

Extender Ports

2 x RJ11 and Terminal Block Combo
Cable: 24AWG. 0.5mm diameter, 1 pair

Console

1 x DB9

VDSL Operation

DIP Switch: Local or Remote

Alarm Contact

1 x Relay output, current capacity 1A/24VDC

LED Indicators

Per Unit: Power 1, Power 2, Alarm
Per RJ45 Port: Link/Activity
Per Extender Port: Link

+ Technology

Standards

IEEE 802.3 10BASE-T
IEEE 802.3u 100BASE-TX/100BASE-FX
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 802.1Q Tag VLANs
IEEE 802.1s MSTP
IEEE 802.1w RSTP
IEEE 802.1x PNAC
IEEE 802.1ab LLDP

Forward/Filtering Rate

14,800pps for 10Mbps
148,810pps for 100Mbps
1,488,100pps for 1000Mbps

Processing Type

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

+ Power

Input
12-48VDC Redundant (Terminal block)

Power Consumption
15.2W Max

Protection
Reverse Polarity Protection
Over Current Protection

+ Physical

Casing Material
Aluminum

IP Rating
IP30

Dimensions
73 x 125 x 145mm (W x D x H)
2.87" x 4.92" x 5.7"

Weight
1.25Kg (2.76lbs)

Installation Type
DIN-rail (Top Hat Type 35mm)

+ 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 55032
EN 61000-6-4
EN 61000-3-2
EN 61000-3-3

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 61010

Vibration
IEC 60068-2-6

Shock
IEC 60068-2-27

Free Fall
FED STD 101C Method 5007.1

Industrial
NEMA-TS2



Warranty

Length
Limited Lifetime

Details

www.etherwan.com/support/warranty-policy

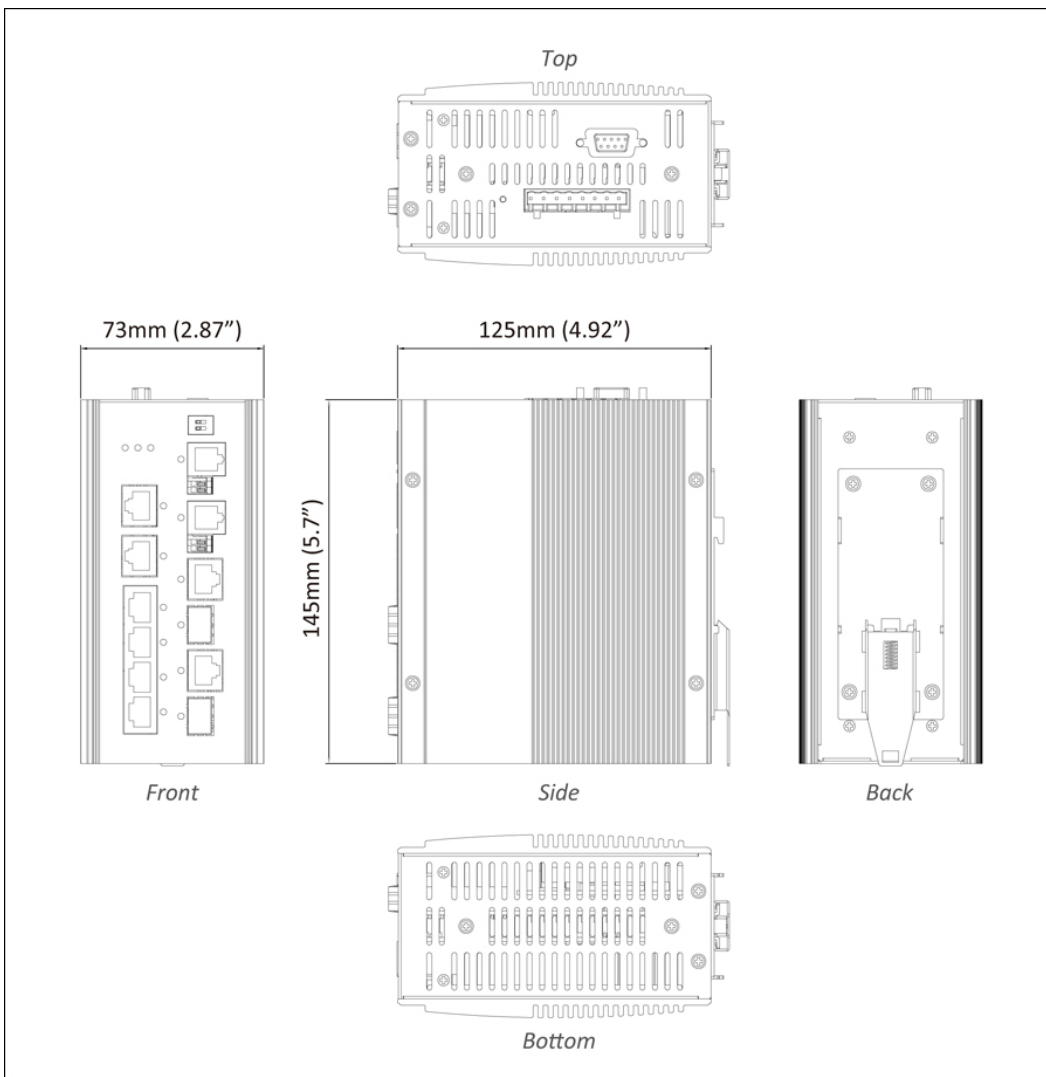
+ What's Included

Device
Ethernet Switch/Extender

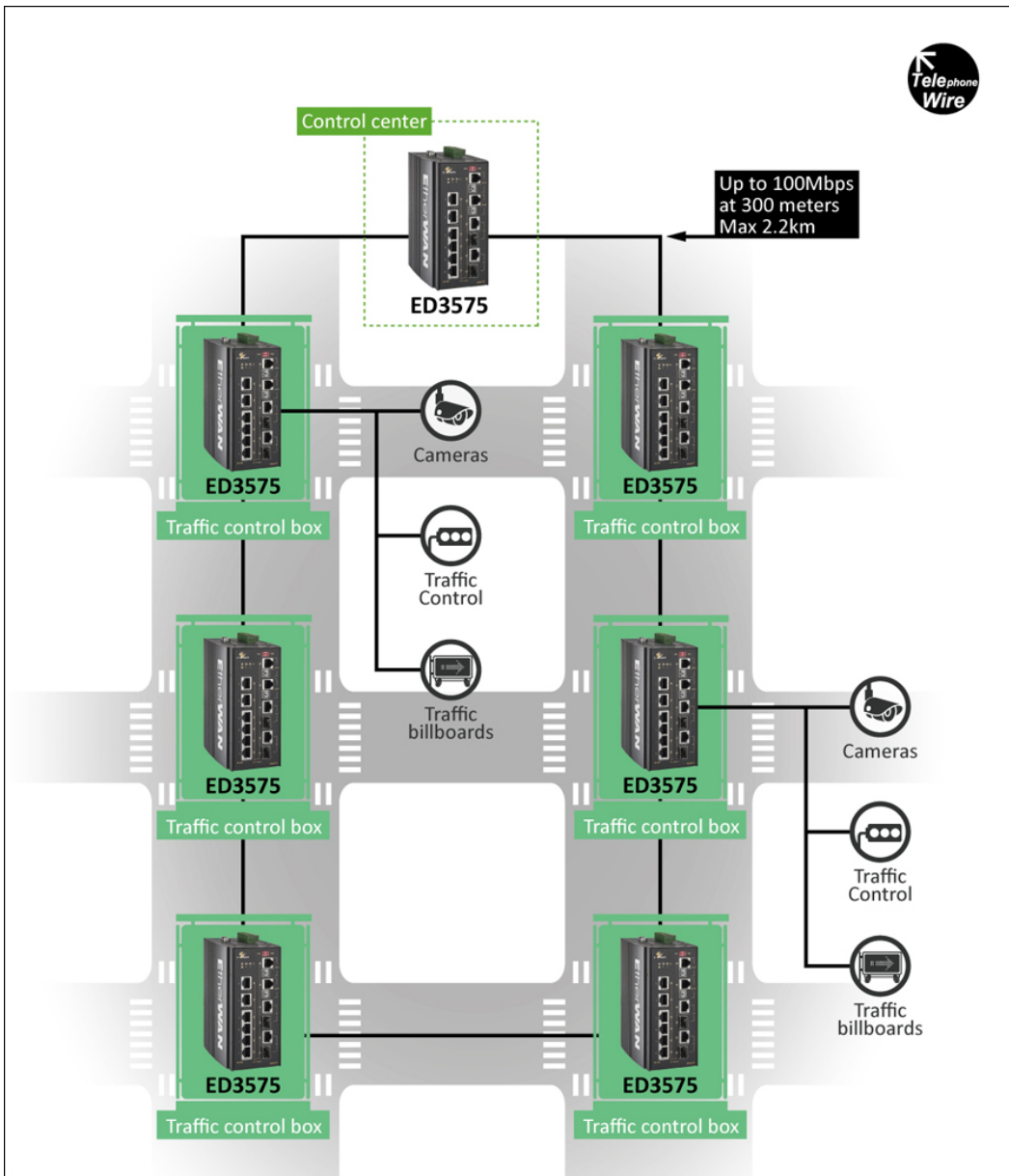
Cables
1 Console Cable

Documentation
Quick install guide

Dimensions

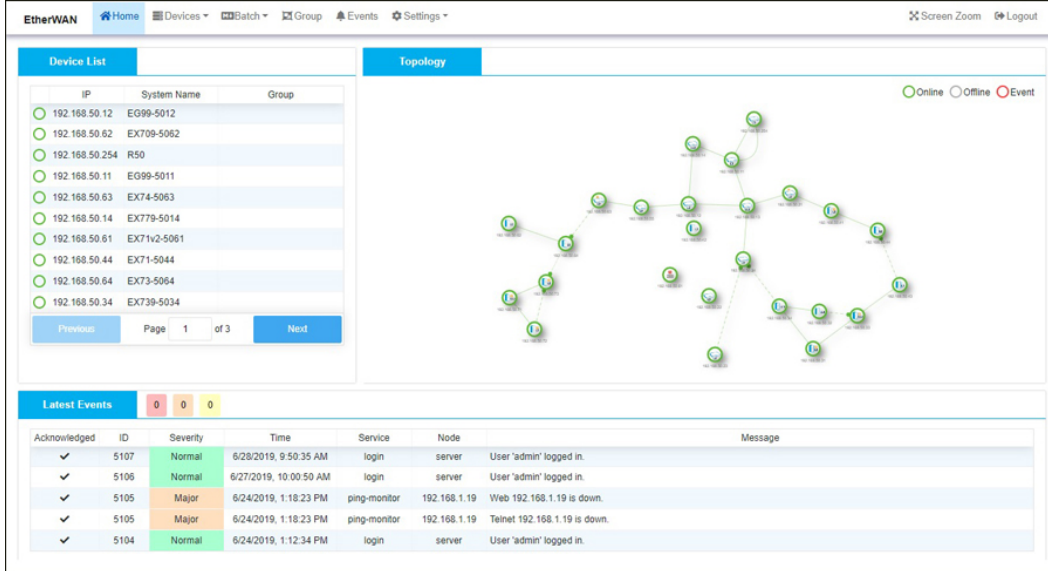


Application



Software

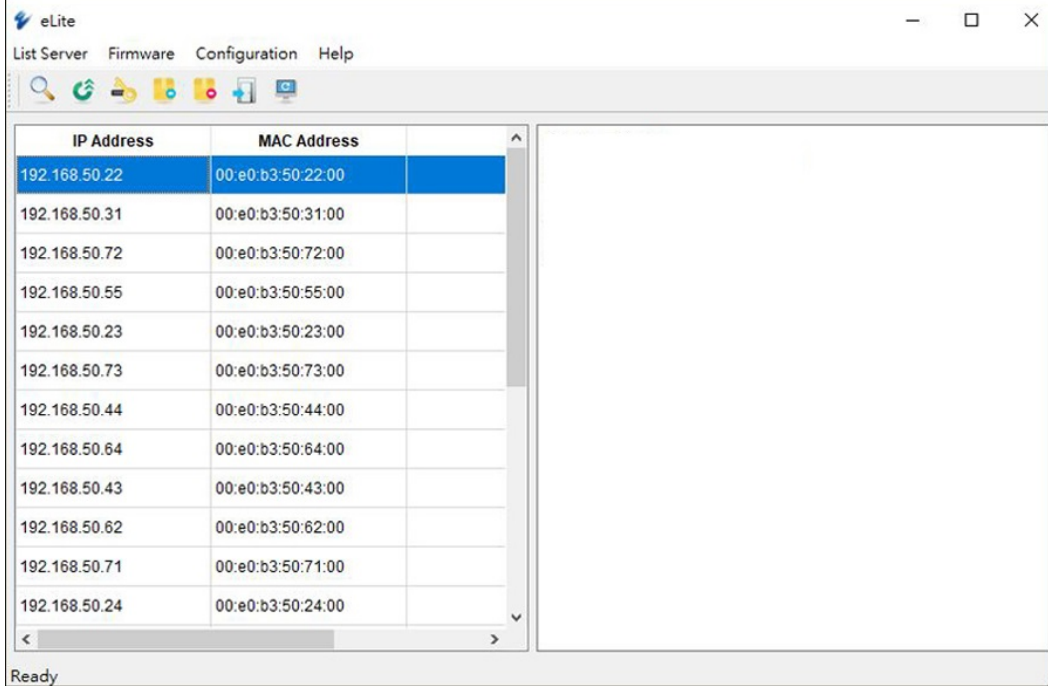
[Network Management eVue™ Network Configuration and Monitoring Tool](#)
[Network Discovery eLite™ Network Discovery and IP Configuration Tool](#)



The screenshot shows the EtherWAN web interface. On the left, there is a 'Device List' table with columns for IP, System Name, and Group. The table contains 10 entries. On the right, there is a 'Topology' diagram showing a network of interconnected nodes. Below the topology, there is a 'Latest Events' section with a table of events.

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	

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.



The screenshot shows the eLite application window. It has a menu bar with 'List Server', 'Firmware', 'Configuration', and 'Help'. Below the menu bar, there is a toolbar with several icons. The main area contains a table with two columns: 'IP Address' and 'MAC Address'. The table lists 13 IP addresses and their corresponding MAC addresses.

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

Ordering Info

+ Model

ED3575-622 6-port 10/100BASE-TX + 2-port 10/100/1000BASE-T / 100/1000BASE SFP Combo + 2-port VDSL2

+ Accessories

Hardened 100BASE SFP Modules	www.etherwan.com/products/sfp-fiber-transceiver
Hardened Gigabit SFP Modules	www.etherwan.com/products/sfp-fiber-transceiver
DIN-Rail Power Supplies	www.etherwan.com/products/din-rail-power-supply

