

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

+ 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)

+ 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

+ 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

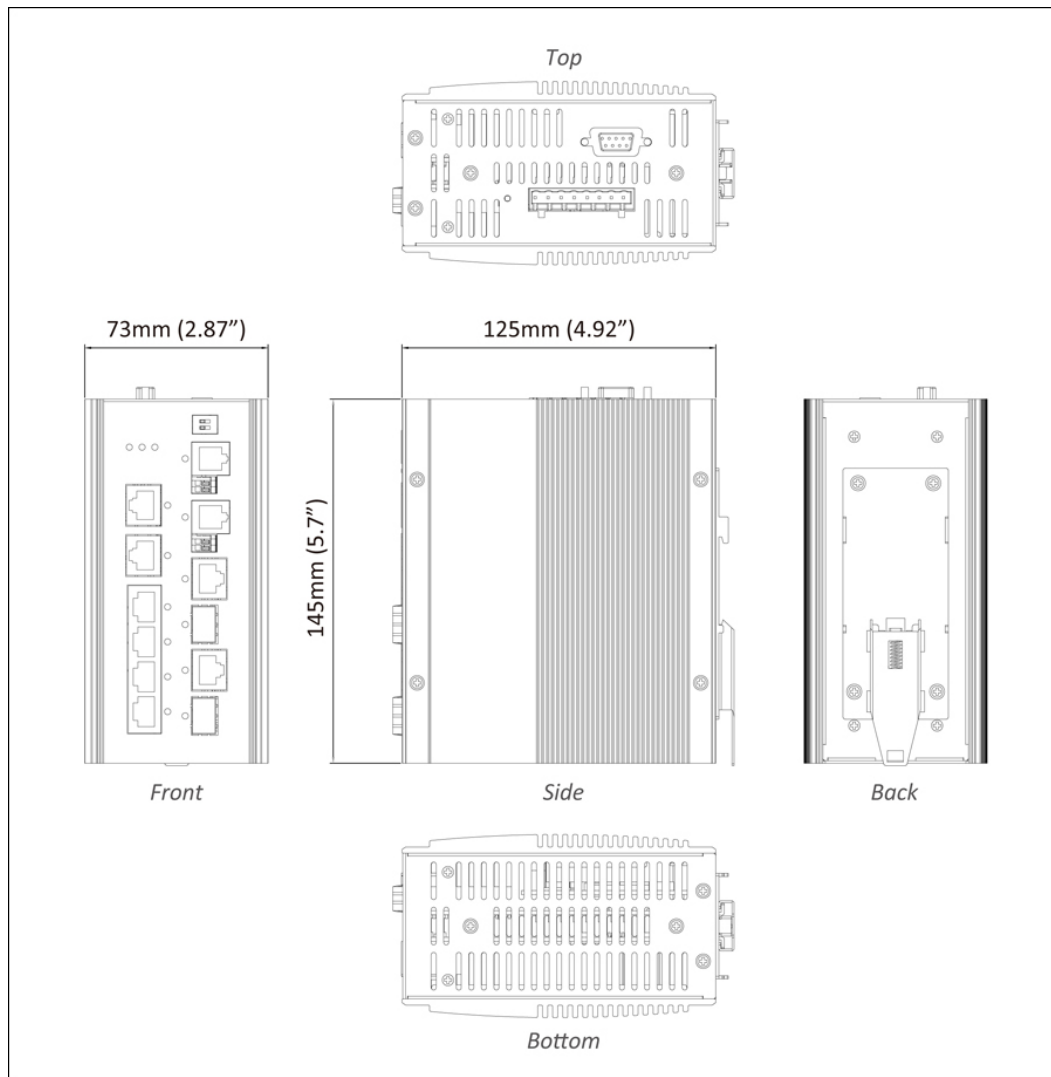
Cables

1 Console Cable

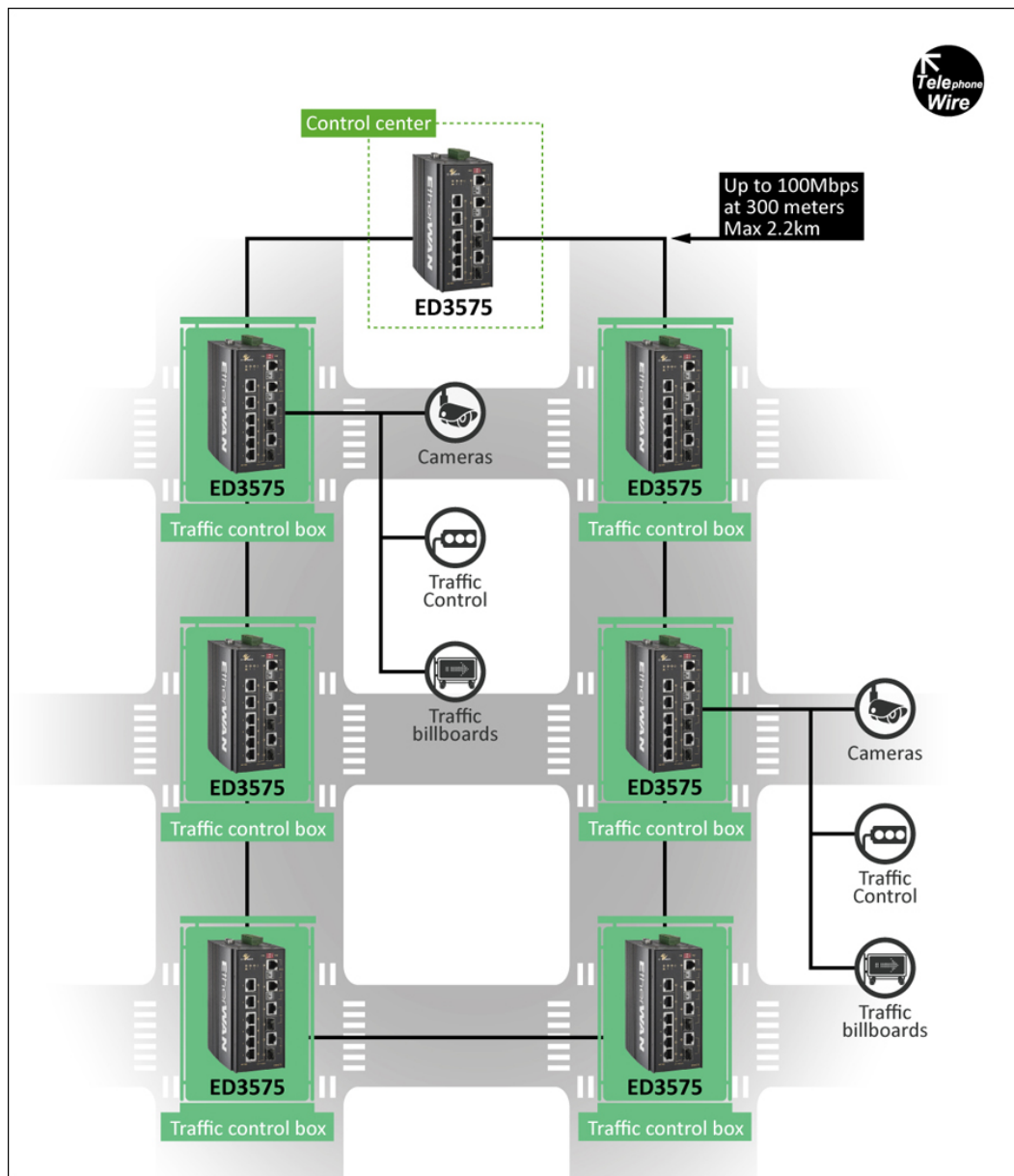
Documentation

Quick install guide

Dimensions



Application



eVue™ Network Configuration and Monitoring Tool

eLite™ Network Discovery and IP Configuration Tool

The screenshot displays the eLite network management interface, which includes several key sections:

- Top Navigation Bar:** Contains links for Home, Devices, Batch, Group, Events, Settings, Screen Zoom, and Logout.
- Device List:** A table listing network devices with columns for IP, System Name, and Group. The list shows 12 devices, all with green status indicators. Below the table are navigation buttons for Previous, Page 1 of 3, and Next.
- Topology:** A visual representation of the network structure, showing nodes connected by lines. Nodes are color-coded: green for Online, yellow for Offline, and red for Event.
- Latest Events:** A log of recent system events. It includes columns for Acknowledged status, ID, Severity, Time, Service, Node, and Message. Recent events include login attempts and ping-monitor alerts.
- IP/MAC Address Table:** A detailed view of network addresses. It has three columns: IP Address, MAC Address, and an unlabeled third column. The first row is highlighted in blue. The table lists various IP addresses and their corresponding MAC addresses.

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.

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
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+ 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

