ED3575

Hardened Managed 6-port 10/100BASE-TX +2-port Gigabit combo SFP Switch with 2-port Copper Pair 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

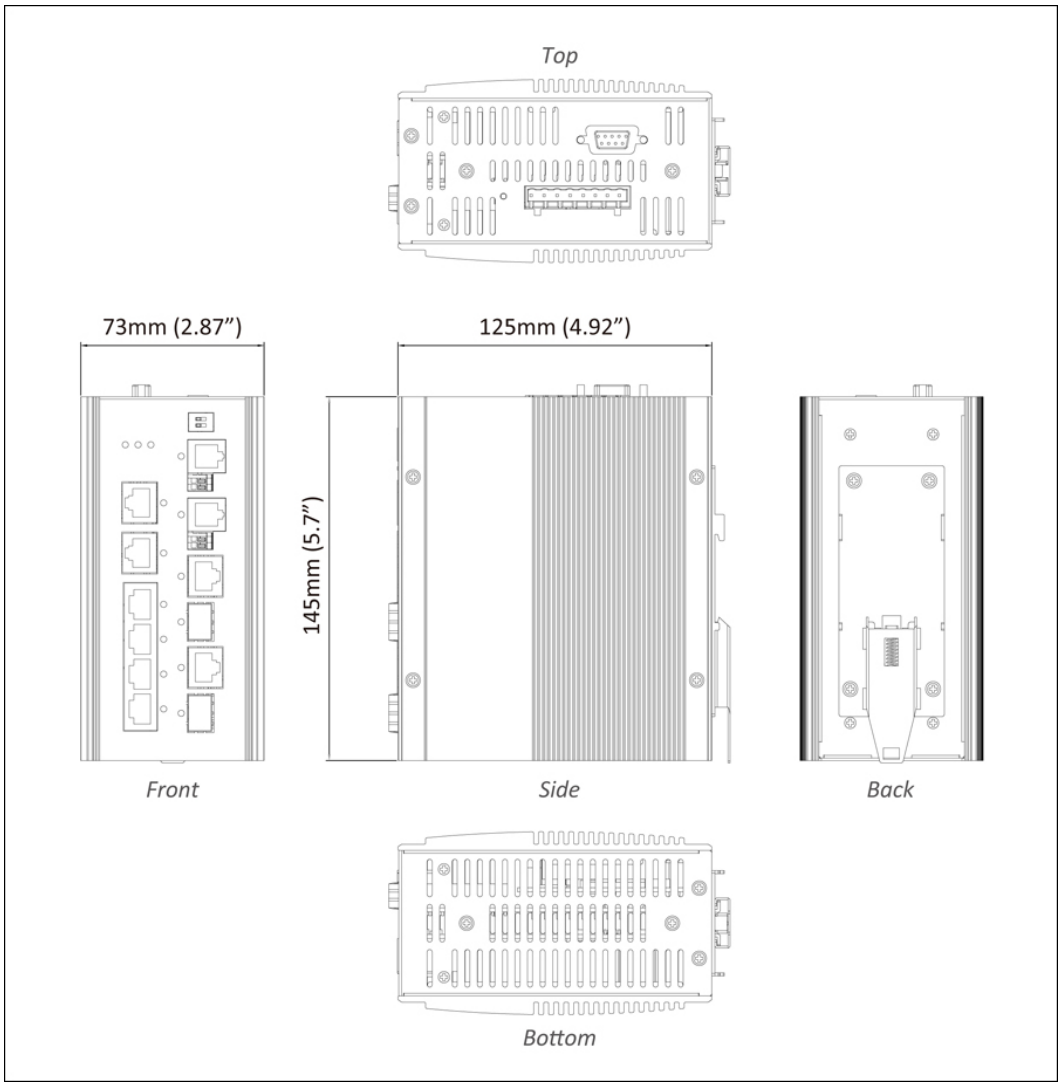
Quick install guide

MPN

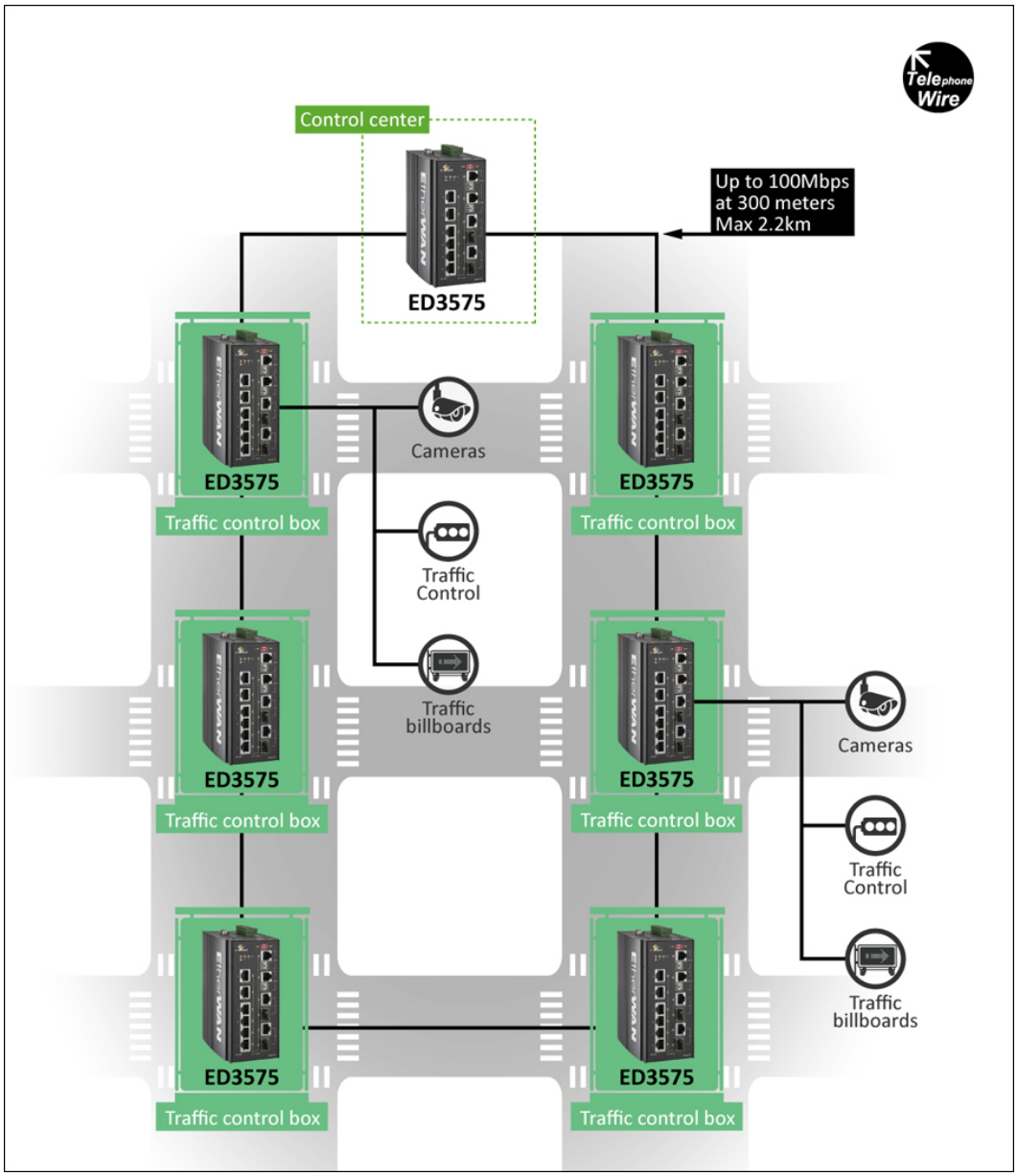
ED3575-622

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Dimensions

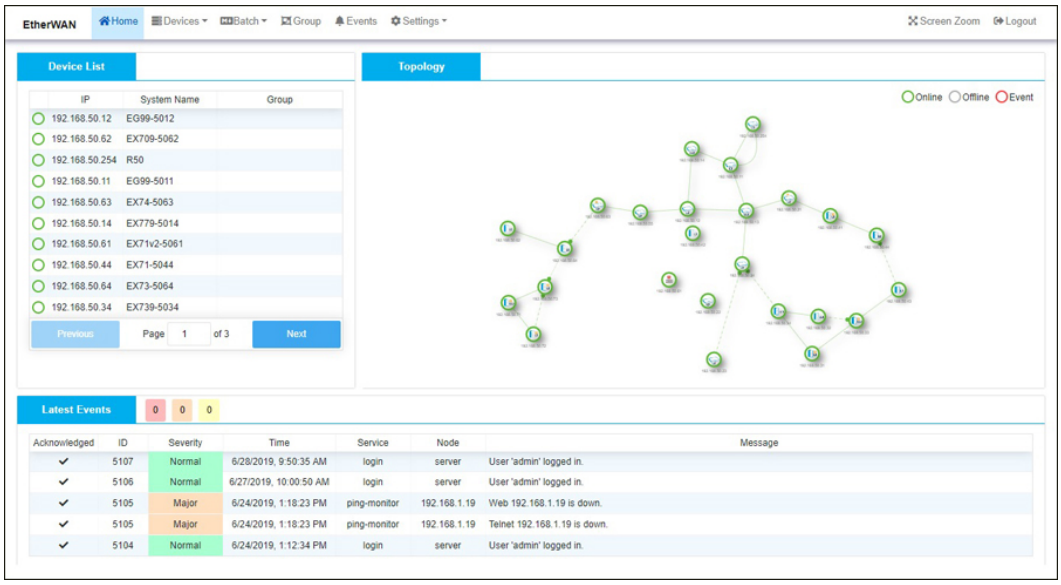


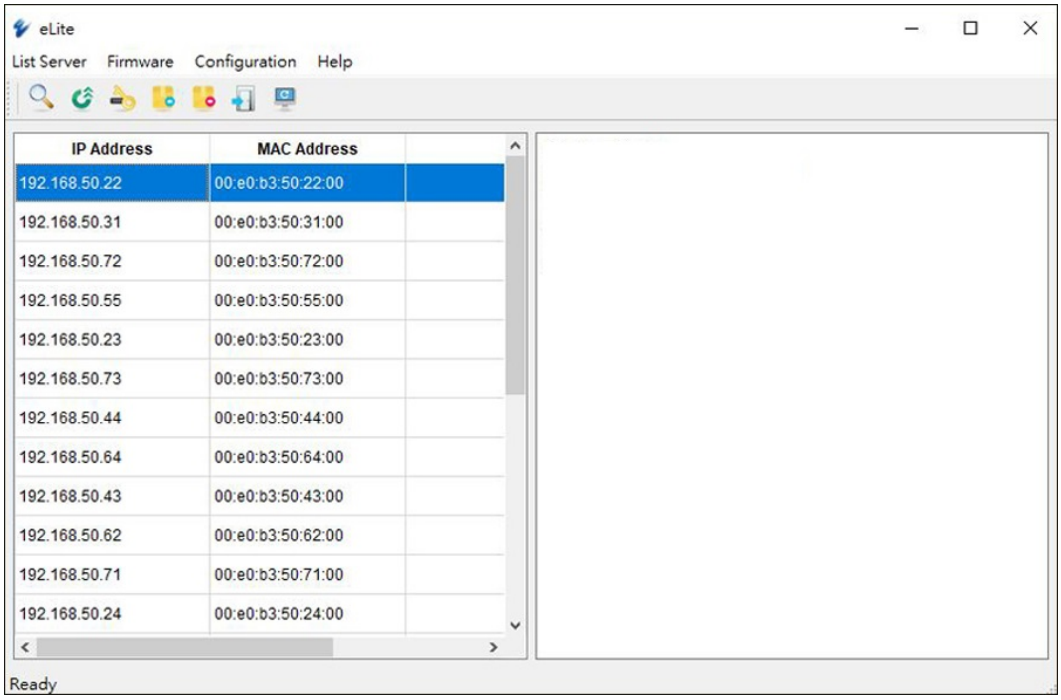
Application



Software

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





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

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