ED3541 Series

Hardened 10/100BASE-TX Ethernet Extender

EtherWAN

UL 60950 | UL Class 1 Div 2 | Wide Temperature | Fanless

Product Highlights

● **High Speed Performance**
- Up to 100Mbps at 200 meters distance.
- Up to 1Mbps at 2200 meters distance.

● **Wide Operating Temperature**
- Fanless and wide operating temperature range -40 to 75°C (-40 to 167°F)

● **For Use in Hazardous Locations**
- Class 1, Division 2 certified for use in hazardous locations

Overview

The ED3541 Ethernet extender allows the extension of IP services beyond normal Ethernet distance limitations without changing cables, breaking the 100-meter Ethernet barrier.

The ED3541's hardened design features high shock and vibration, electrical noise immunity, a wide operating temperature range from -40 to 75°C, and ruggedized aluminum housing. The ED3541 is the ideal Ethernet extender for environments where connectivity is crucial.

Ordering Information

Model

ED3541	10/100BASE-TX Hardened Ethernet Extender

* DIN-Rail mounting kit included.

Optional Accessories

HDR-30-24	30W/1.5A DIN-Rail 24VDC Industrial Power Supply

Hardware Specifications
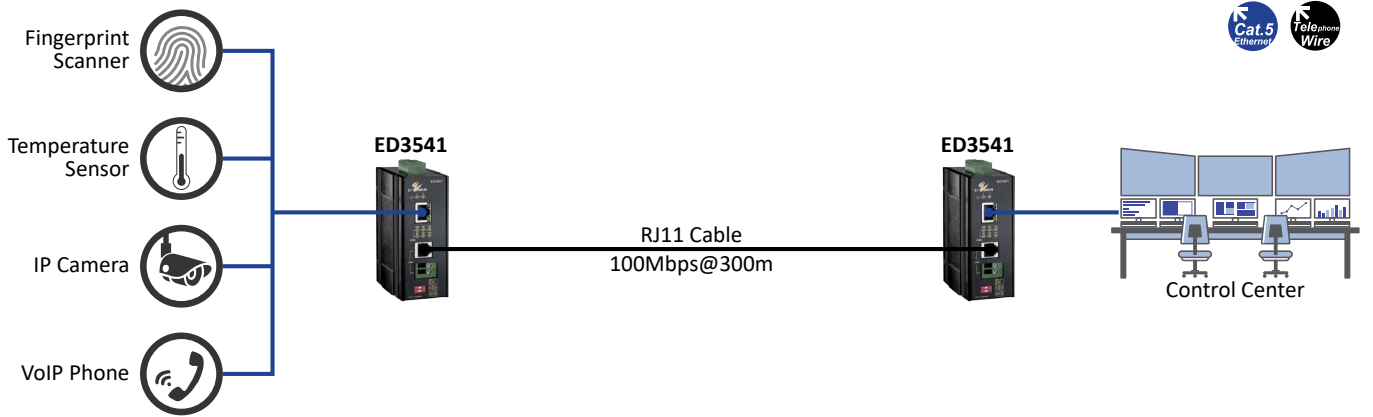
Interface   +

Ethernet Port	Port: One RJ-45 port Speed: 10/100Mbps Distance: 100 meters (328ft.) Cable: 10BASE-T: UTP Cat. 3, 4, 5 (2-pair wire) 100BASE-TX: UTP Cat. 5 (4-pair wire)
Ethernet Extender Port	Port: One RJ-11/Terminal Block port Speed: Up to 100Mbps Distance: 2200 meters (7,217ft.) Cable: Telephone wire 24AWG (0.5mm diameter, 1-pair wire) or larger
DIP Switch	DIP 1 Site: Auto/Loc DIP 2 LDR: On/Off
LED Indicators	Per Unit: Power 1, Power 2 Per 10/100TX Port: Link/Activity, full-duplex Line Speed: 100/80/60/40/20Mbps and link below 20Mbps

Distance (m)	Data rate (Mbps)
200	100
400	80
600	60
800	40
...	...
2200	1

Note:
All speed selections are Symmetrical on the DSL and Full-duplex on the Ethernet.
The data rate will vary according to the line quality.

Technology   +

Standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3x full duplex and flow control
Processing Type	Half-duplex back-pressure and IEEE 802.3x full-duplex flow control Auto-negotiation Auto MDI/MDIX

Power   +

Input	12-48VDC (Terminal Block)
Power Consumption	4.56W max. 0.38A@12VDC, 0.07A@48VDC
Protection	Over Current Protection Reverse Polarity Protection

Physical   +

Casing Material	Aluminum
Dimensions	42 x 90 x 100mm (W x D x H) 1.65" x 3.54" x 3.94"
Weight	0.41kg (0.9lbs)
Installation Type	DIN-rail mounting (Top hat type 35mm)

Environmental   +

Operating Temp.	-40 to 75°C (-40 to 167°F) Tested @ -40 to 85°C (-40 to 185°F)
Storage Temp.	-40 to 85°C (-40 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
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 60950-1 EN 60950-1 IEC 60950-1 ISA 12.12.01 Class 1, Division 2 group A, B, C &D for hazardous locations
Vibration	IEC 60068-2-6 Fc
Shock	IEC 60068-2-27 Ea
Free Fall	FED STD 101C Method 5007.1

Warranty   +

Length	Limited Lifetime
Details	www.etherwan.com/support/ warranty-policy

What's Included   +

Device	Ethernet Extender
Documentation	Quick Install Guide

Dimensions

Top

90mm (3.54")

42mm (1.65")

100mm (3.94")

Front

Side

Back

Application

Fingerprint
Scanner

Temperature
Sensor

IP Camera

VoIP Phone

ED3541

ED3541

RJ11 Cable
100Mbps@300m

Control Center

Cat.5
Ethernet

Telephone
Wire
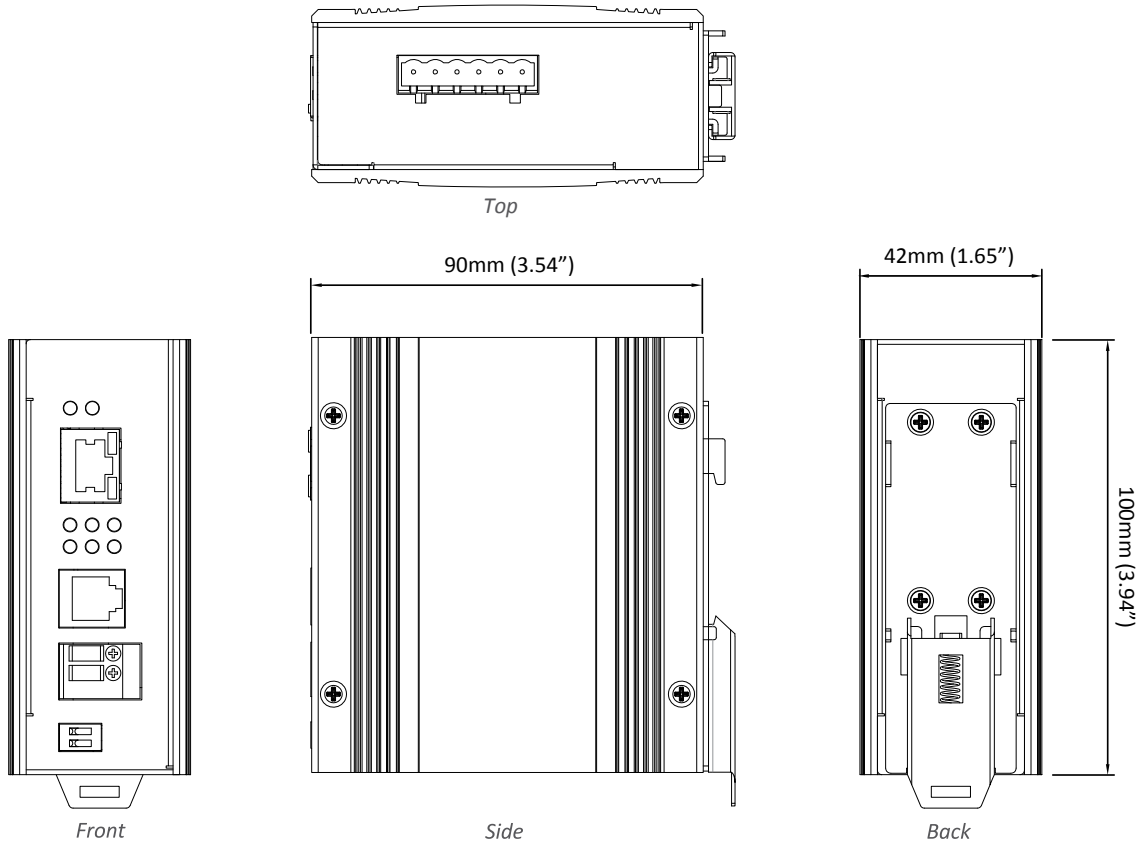
Accessories

DIN-Rail Power Supplies	+
www.etherwan.com/products/din-rail-power-supply	