

ED3541 Series

Hardened 10/100BASE-TX Ethernet Extender



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.

EtherWAN — "When Connectivity is Crucial."

Highlights

+ High Speed Performance

Up to 100Mbps at 200 meters distance
Up to 1Mbps at 2200 meters distance

+ For Use in Hazardous Locations

Class 1, Division 2 certified for use in hazardous locations

+ Wide Operating Temperature

Fanless and wide operating temperature range -40 to 75°C (-40 to 167°F)

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 |

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

+ 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)

+ 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 Redundant (Terminal Block)

Power Consumption

4.56W max. 0.38A@12VDC, 0.07A@48VDC

Protection

Over Current Protection
 Reverse Polarity Protection

+ 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

+ 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)

+ Warranty

Length

Limited Lifetime

Details

www.etherwan.com/support/warranty-policy

+ What's Included

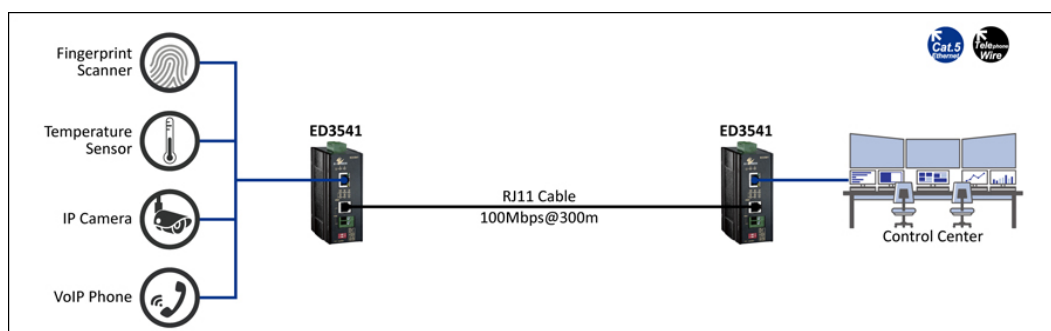
Device

Ethernet Extender

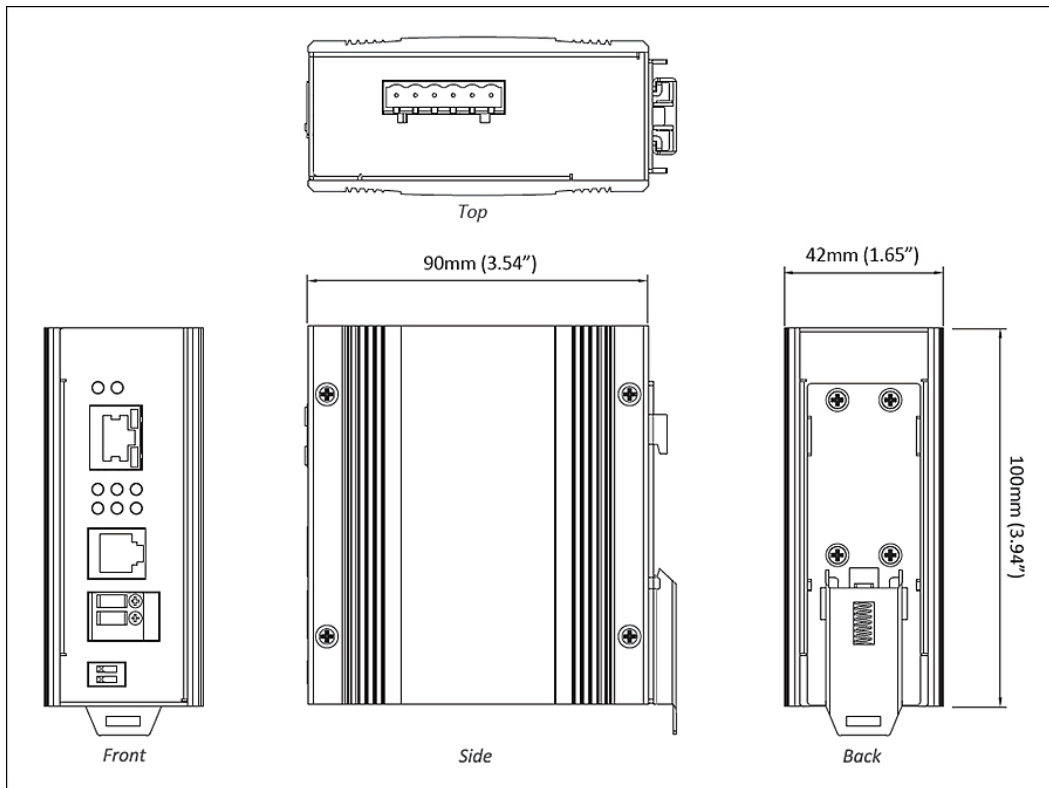
Documentation

Quick Install Guide

Application



Dimensions



Ordering Info

+ Model

ED3541 Hardened 10/100BASE-TX Ethernet Extender

* DIN-Rail mounting kit included.

+ Optional Accessories

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

+ Accessories

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

