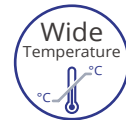


# ED3541 Series

Hardened 10/100BASE-TX Ethernet Extender



## 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

<b>ED3541</b>	10/100BASE-TX Hardened Ethernet Extender
---------------	--

\* DIN-Rail mounting kit included.

### Optional Accessories

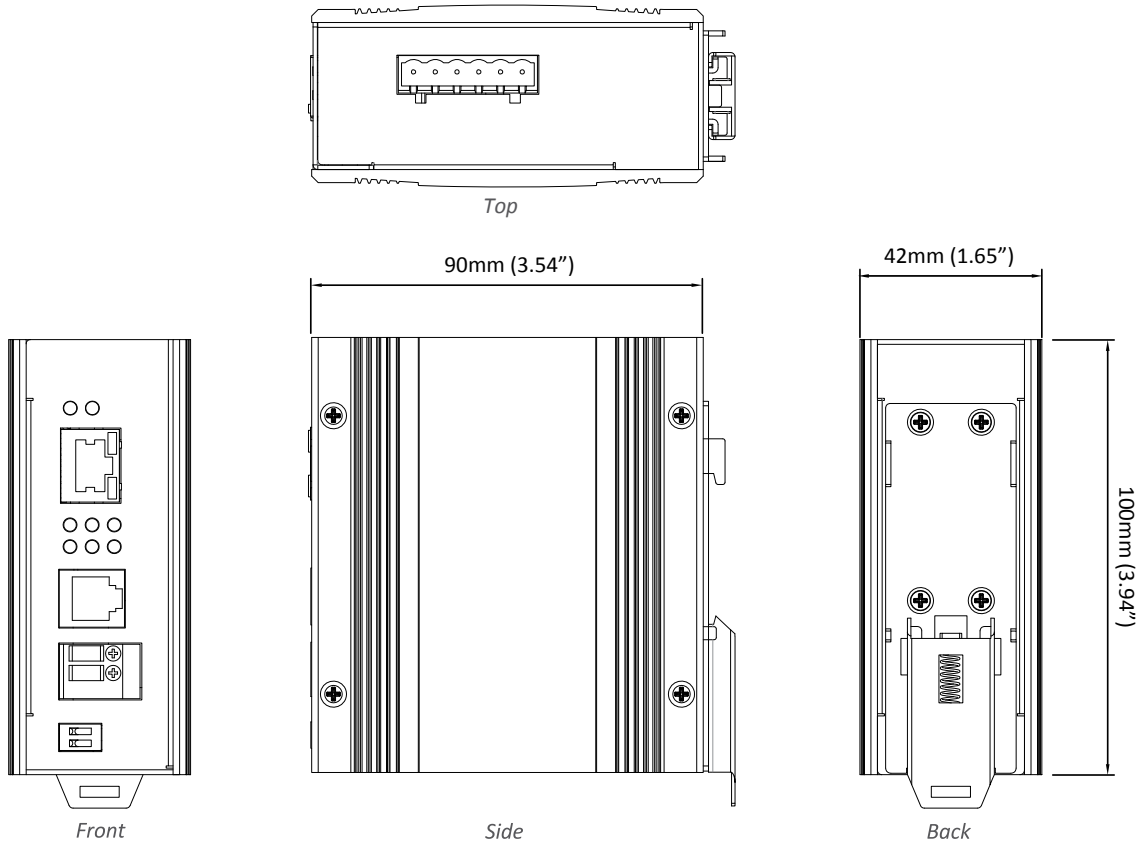
<b>HDR-30-24</b>	30W/1.5A DIN-Rail 24VDC Industrial Power Supply
------------------	---

# Hardware Specifications

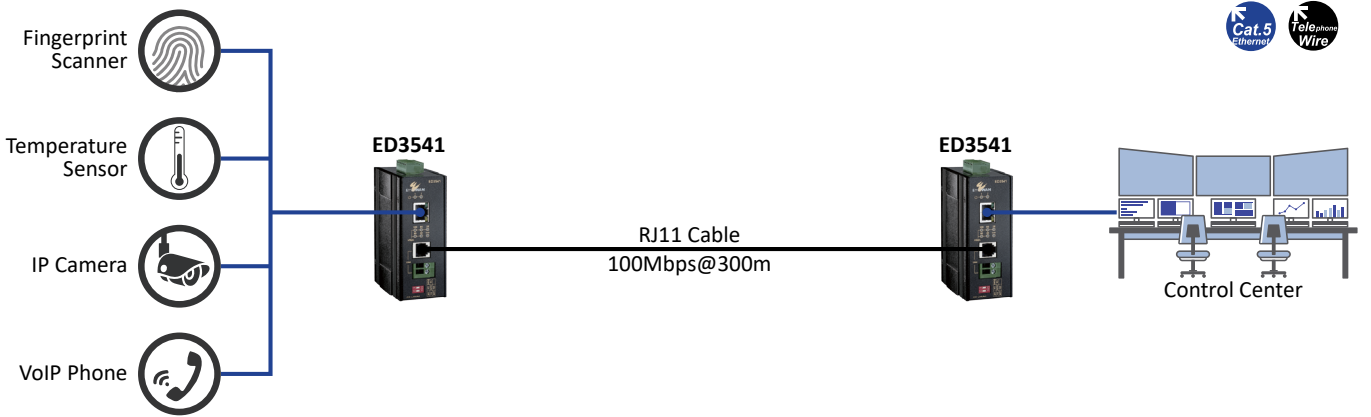
Interface		+														
<b>Ethernet Port</b>	Port: One RJ-45 port Speed: 10/100Mbps Distance: 100 meters (328ft.) Cable: 10BASE-T: UTP Cat. 3, 4, 5 (2-pair wire) 100BASE-TX: UTP Cat. 5 (4-pair wire)															
<b>Ethernet Extender Port</b>	Port: One RJ-11/Terminal Block port Speed: Up to 100Mbps Distance: 2200 meters (7,217ft.) Cable: Telephone wire 24AWG (0.5mm diameter, 1-pair wire) or larger															
<b>DIP Switch</b>	DIP 1 Site: Auto/Loc DIP 2 LDR: On/Off															
<b>LED Indicators</b>	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															
	<table border="1"> <thead> <tr> <th>Distance (m)</th> <th>Data rate (Mbps)</th> </tr> </thead> <tbody> <tr> <td>200</td> <td>100</td> </tr> <tr> <td>400</td> <td>80</td> </tr> <tr> <td>600</td> <td>60</td> </tr> <tr> <td>800</td> <td>40</td> </tr> <tr> <td>...</td> <td>...</td> </tr> <tr> <td>2200</td> <td>1</td> </tr> </tbody> </table>	Distance (m)	Data rate (Mbps)	200	100	400	80	600	60	800	40	...	...	2200	1	
Distance (m)	Data rate (Mbps)															
200	100															
400	80															
600	60															
800	40															
...	...															
2200	1															
<p>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.</p>																
Technology		+														
<b>Standards</b>	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3x full duplex and flow control															
<b>Processing Type</b>	Half-duplex back-pressure and IEEE 802.3x full-duplex flow control Auto-negotiation Auto MDI/MDIX															
Power		+														
<b>Input</b>	12-48VDC (Terminal Block)															
<b>Power Consumption</b>	4.56W max. 0.38A@12VDC, 0.07A@48VDC															
<b>Protection</b>	Over Current Protection Reverse Polarity Protection															

Physical		+
<b>Casing Material</b>	Aluminum	
<b>Dimensions</b>	42 x 90 x 100mm (W x D x H) 1.65" x 3.54" x 3.94"	
<b>Weight</b>	0.41kg (0.9lbs)	
<b>Installation Type</b>	DIN-rail mounting (Top hat type 35mm)	
Environmental		+
<b>Operating Temp.</b>	-40 to 75°C (-40 to 167°F) Tested @ -40 to 85°C (-40 to 185°F)	
<b>Storage Temp.</b>	-40 to 85°C (-40 to 185°F)	
<b>Relative Humidity</b>	5% to 95% (non-condensing)	
Regulatory		+
<b>ISO</b>	Manufactured in ISO-9001 facility	
<b>EMI</b>	FCC Part 15B Class A VCCI Class A EN 61000-6-4	
<b>EMS</b>	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)	
<b>Safety</b>	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	
<b>Vibration</b>	IEC 60068-2-6 Fc	
<b>Shock</b>	IEC 60068-2-27 Ea	
<b>Free Fall</b>	FED STD 101C Method 5007.1	
Warranty		+
<b>Length</b>	Limited Lifetime	
<b>Details</b>	<a href="http://www.etherwan.com/support/warranty-policy">www.etherwan.com/support/warranty-policy</a>	
What's Included		+
<b>Device</b>	Ethernet Extender	
<b>Documentation</b>	Quick Install Guide	

# Dimensions



# Application



# Accessories

DIN-Rail Power Supplies



[www.etherwan.com/products/din-rail-power-supply](http://www.etherwan.com/products/din-rail-power-supply)

**Industrial Communication Products Ltd**  
**Tel: +44(0) 203 086 9569**

**Web: [www.industrialcomms.com](http://www.industrialcomms.com)**  
**Email: [sales@industrialcomms.com](mailto:sales@industrialcomms.com)**

© EtherWAN Systems, Inc. All rights reserved. 20200716

EtherWAN is constantly developing and improving products. Specifications are subject to change without notice and without incurring any obligation.