

# ED3501 Series

Industrial 10/100BASE-TX Ethernet Extender



## Overview

The ED3501 Ethernet extender allows the extension of IP services beyond normal Ethernet distance limitations without changing cables, breaking the 100-meter Ethernet barrier.

The ED3501's design features high shock, vibration, electrical noise immunity, an operating temperature range from -10°C to 60°C, and ruggedized aluminum housing. The ED3501 is the ideal Ethernet extender for environments where connectivity is crucial.

EtherWAN — "When Connectivity is Crucial."

## Highlights

### + High Speed Performance

Up to 100Mbps at 300 meters distance  
Up to 1Mbps at 2600 meters distance

### + Industrial Operating Temperature

-10 to 60°C (14 to 140°F) operating temperature range design is suitable for installation in outdoor cabinets

## 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: 2600 meters (8,530ft.)

Cable: Telephone wire 24AWG (0.5mm diameter, 1-pair wire) or larger

#### DIP Switch

DIP 1: Auto/Loc

DIP 2: SYM/ASM

DIP 3: Perf./Std.

#### LED Indicators

Per Unit: Power 1

Per 10/100TX Port: Link/Activity, full-duplex

Line Speed: 100/80/60/40/20Mbps and link below

SYM: Symmetric mode (distance  $\leq 1000\text{m}$ )

ASM: Asymmetric mode

RMT: Remote mode

LOC: Local mode

Per: On/Performance mode; Off/Standard mode

**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 full-duplex flow control

Auto-negotiation

Auto MDI/MDIX

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**Distance (m)**

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**Data rate (Mbps)**

300	100
400	80
600	60
800	40
...	...
2600	1

## + Power

### Input

12VDC (DC Jack)

### Power Consumption

4.56W max. 0.38A@12VDC

### Protection

Over Current Protection

Reverse Polarity Protection

## + Physical

### Casing Material

Aluminum

### IP Rating

IP30

### Dimensions

80.3 x 109.2 x 23.8mm (W x D x H)

3.16" x 4.30" x 0.94"

### Weight

0.15kg (0.33lbs)

### Installation Type

DIN-rail mounting (Top hat type 35mm) or wall mounting

## + Environmental

### Operating Temp.

-10 to 60°C (14 to 140°F)

### Storage Temp.

-20 to 70°C (-4 to 158°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

EN 61000-3-3

### 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

### Vibration

IEC 60068-2-6 Fc

## + What's Included

### Device

Ethernet Extender

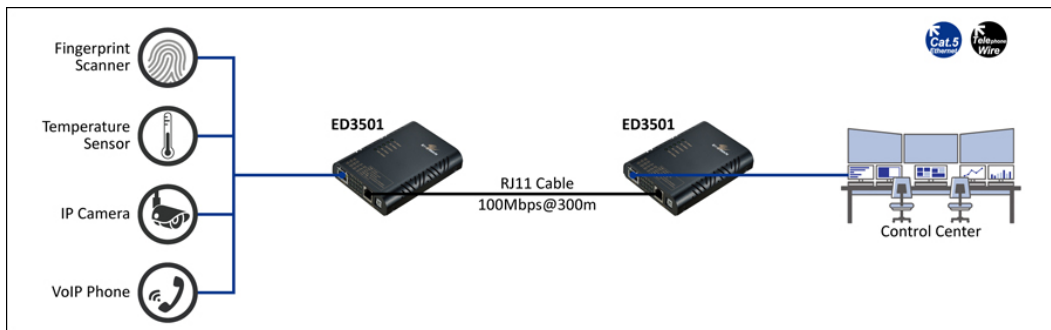
### Power

12VDC Power Adapter

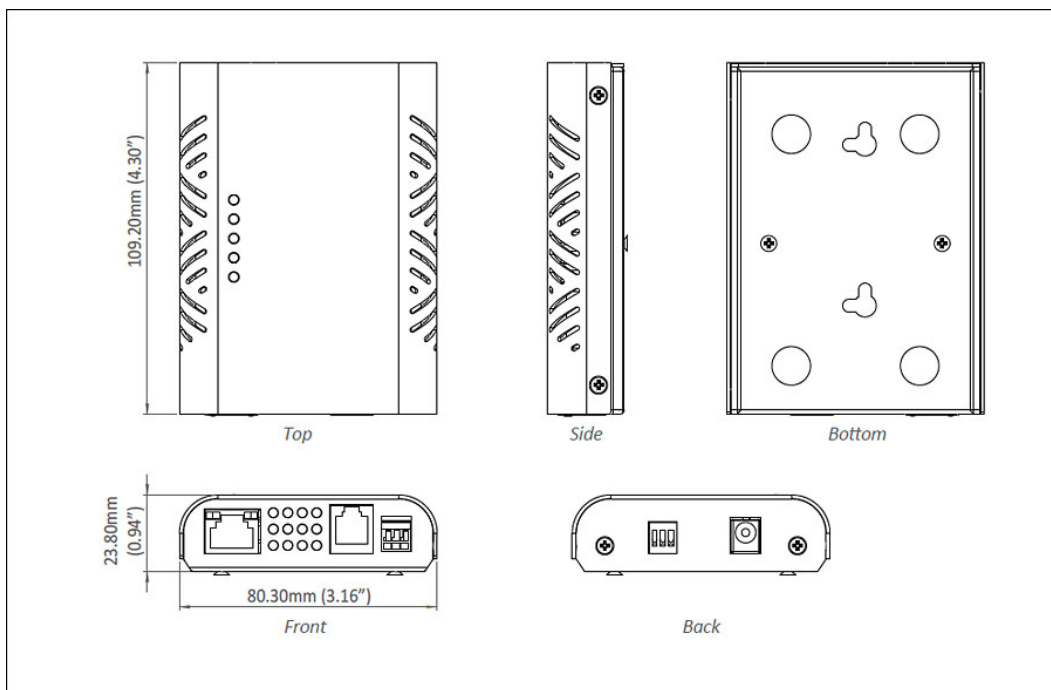
### Documentation

Quick Install Guide

## Application



## Dimensions



## Ordering Info

### + Model

ED3501	10/100BASE-TX Industrial Ethernet Extender
ED3501-D	10/100BASE-TX Industrial Ethernet Extender with DIN-Rail Mounting Kit

### + Accessories

Multiple Channel Chassis	<a href="http://www.etherwan.com/products/media-converters/multiple-channel-media-converters">www.etherwan.com/products/media-converters/multiple-channel-media-converters</a>
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