

ED3501 Series

Industrial 10/100BASE-TX Ethernet Extender



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

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."

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 $\leq 1000m$)

ASM: Asymmetric mode

RMT: Remote mode

LOC: Local mode

Per: On/Performance mode; Off/Standard mode

| Distance (m) | Data rate (Mbps) |
|--------------|------------------|
| 300 | 100 |
| 400 | 80 |
| 600 | 60 |
| 800 | 40 |
| ... | ... |
| 2600 | 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.

+ 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



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

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

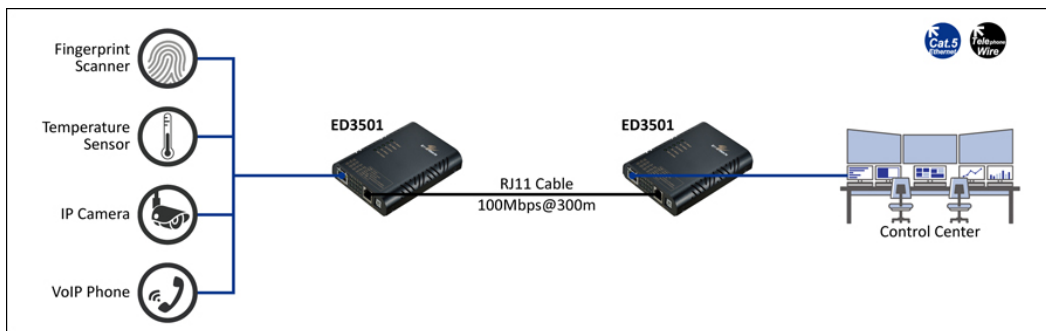
Power

12VDC Power Adapter

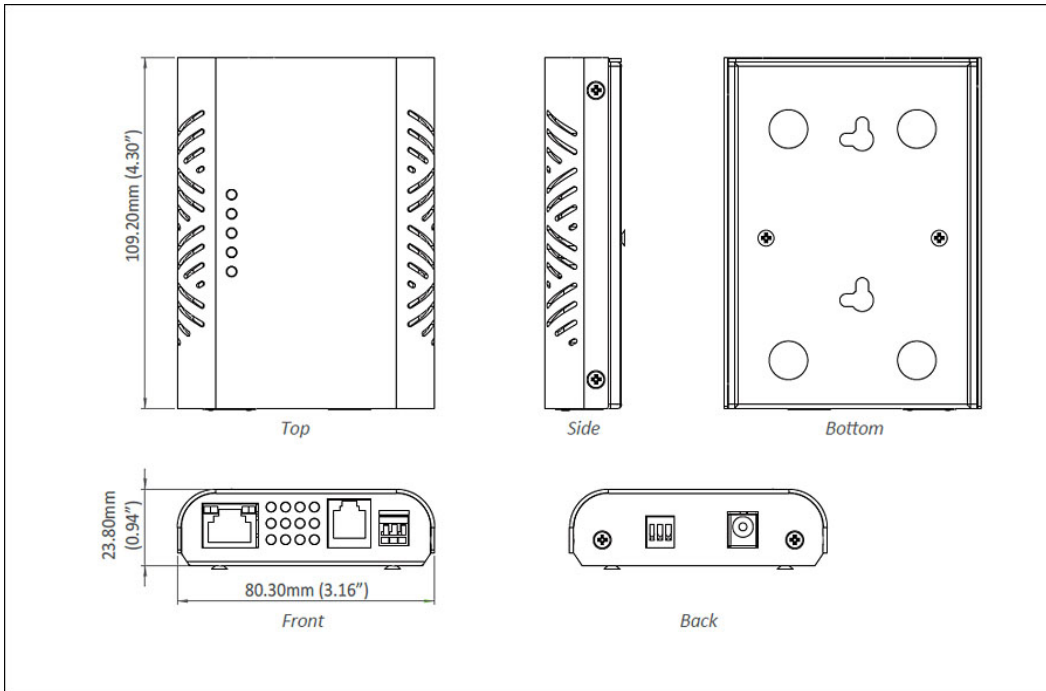
Documentation

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 www.etherwan.com/products/media-converters/multiple-channel-media-converters

