

# ED20KEXT-2P

Unmanaged 10/100BASE-TX Ethernet Extender



## Overview

The EtherWAN ED20KEXT-2P is a high-performance **Ethernet extender** designed for long-distance network expansion over existing copper cables. Supporting point-to-point, line, and ring topologies, it delivers **up to 30Mbps** over **20km (12.4 miles)** with **SHDSL technology**. Featuring 2 SHDSL ports and a 4-port switch, it ensures flexible, high-speed connectivity for industrial and enterprise applications.

EtherWAN — "When Connectivity is Crucial."

## Features

### + Installation

- Easy startup, plug and play
- Automatic SHDSL data rate detection
- Automatic detection of network cable type [auto MDI(X)]
- Automatic network data rate detection (10/100Mbps)
- Two digital outputs for alerting external controllers

### + Ethernet Extension

- Distances up to 20km (12.4 miles)
- Up to 15.3Mbps in 2-wire operation
- Up to 30Mbps in 4-wire operation
- Robust modulation method (SHDSL)

## Specifications

### + Performance

**Max Distance**

12.4 miles (20km): Depending on data rate and cable cross section

**Max Speed**

15.3Mbps in 2-wire operation  
30MBps in 4-wire operation

**Cabling Limitations**

Conductor cross section rigid: Min: 0.2mm<sup>2</sup>; Max: 1.5mm<sup>2</sup>

Conductor cross section flexible: Min: 0.2mm<sup>2</sup>; Max: 2.5mm<sup>2</sup>

Conductor cross section solid: Min: 24; Max: 14 (AWG)

### + Interface

**Ethernet**

1 x 10/100Base-T(X)

**Extender Ports**

2 x 2 plug-in terminal block

**LED Indicators**

Power, Device Information

### + Technology

**Standards**

IEEE 802.3

**Processing Type**

Auto-negotiation  
SHDSL interface according to ITU-T G.991.2.bis

### + Physical

**Casing Material**

Plastic housing

**IP Rating**

IP20

**Dimensions**

35 x 99 x 114.5mm

**Weight**

0.58lbs (9.41oz/267.6g)

**Installation Type**

DIN Rail

### + Environmental

**Operating Temp.**

-20 to 60°C (-4 to 140°F)

**Storage Temp.**

-40 to 85°C (-40 to 185°F)

**Relative Humidity**

10% to 95% (non-condensing)

**Altitude**

< 5000m (For restrictions, see the manufacturer's declaration for altitude operation)

**MTBF**

711 Years (SN 29500 standard, temperature 77°F/25°C, operating cycle 21%)  
308 Years (SN 29500 standard, temperature 104°F/40°C, operating cycle 34.25%)  
125 Years (SN 29500 standard, temperature 104°F/40°C, operating cycle 100%)

## + Regulatory

### EMI

EN 50121-4

EN 55011

### EMS

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)

### Safety

UL Listed, cUL Listed, cULus Listed

### Vibration

IEC 60068-2-6

### Shock

IEC 60068-2-27

### Electromagnetic

EMC Directive 2014/30/EU

## + Power

### Input

18VDC to 30VDC

### Typical Current Consumption

< 180 mA (24VDC)

## + Warranty

### Length

Limited Lifetime

### Details

[www.etherwan.com/support/warranty-policy](http://www.etherwan.com/support/warranty-policy)

## + What's Included

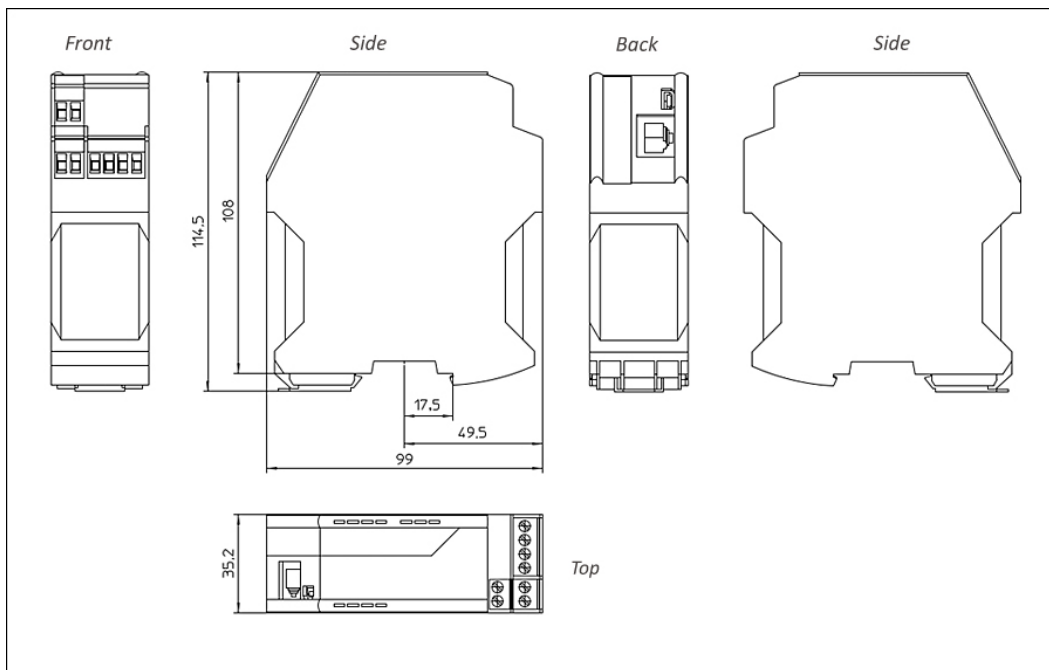
### Device

Ethernet Extender

### Documentation

Quick Installation Guide

## Dimensions



## Ordering Info

### + Model

ED20KEXT-2P	1-port Unmanaged 10/100BASE-TX Ethernet Extender with 2 SHDSL ports
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