

ED20KEXT4PSW

Managed 10/100BASE-TX Ethernet Extender



Overview

The EtherWAN ED20KEXT4PSW is a high-performance **managed 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.

Optimized for efficient network management, it supports **IP-based management, SNMP, VLAN, and RSTP**, ensuring secure and redundant connections. **With replaceable surge protection**, an intuitive display, and Ethernet-based diagnostics, it simplifies maintenance while maximizing network performance and reliability. Ideal for **metro Ethernet, utilities, and transportation networks**.

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)

+ Layer 2 & Management Features

- Web-based management
- DHCP Client support
- IPv4, IPv6, TCP/IP, HTTP, & HTTPS protocol support
- ARP, DHCP (client), PING, & SNMP v2/v3 support
- Auto-negotiation for port speed and duplex
- RSTP redundant protocol support
- Proprietary SHDSL redundancy protocol
- VLAN support (Max. 64)

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: 0.2mm²; Max: 1.5mm²

Conductor cross section flexible: Min: 0.2mm²; Max: 2.5mm²

Conductor cross section solid: Min: 24; Max: 16 (AWG)

+ Interface

Ethernet

4 x 10/100Base-T(X)

Extender Ports

1x6 plug-in terminal block

LED Indicators

Power, Device Information, Display Panel

+ Technology

Standards

IEEE 802.3

Processing Type

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

+ Physical

Casing Material

Aluminum/steel sheet DC01

IP Rating

IP20

Dimensions

60 x 130 x 160mm (W x D x H)
2.4" x 5.1" x 6.3"

Weight

1.7lbs (27.7oz/786g)

Installation Type

DIN Rail

+ Environmental

Operating Temp.

-25 to 60°C (-13 to 140°F)

Storage Temp.

-40 to 85°C (-40 to 185°F)

Relative Humidity

10% to 95% (non-condensing)

Altitude

<8200ft (2500m) (For restrictions, see the manufacturer's declaration for altitude operation)

MTBF

506 Years (SN 29500 standard, temperature 77°F/25°C, operating cycle 21%)
260 Years (SN 29500 standard, temperature 104°F/40°C, operating cycle 34.25%)
110 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

10VDC to 60VDC

Typical Current Consumption

90mA (60VDC)

200mA (24VDC)

450mA (10VDC)

+ Warranty

Length

Limited Lifetime

Details

www.etherwan.com/support/warranty-policy

+ What's Included

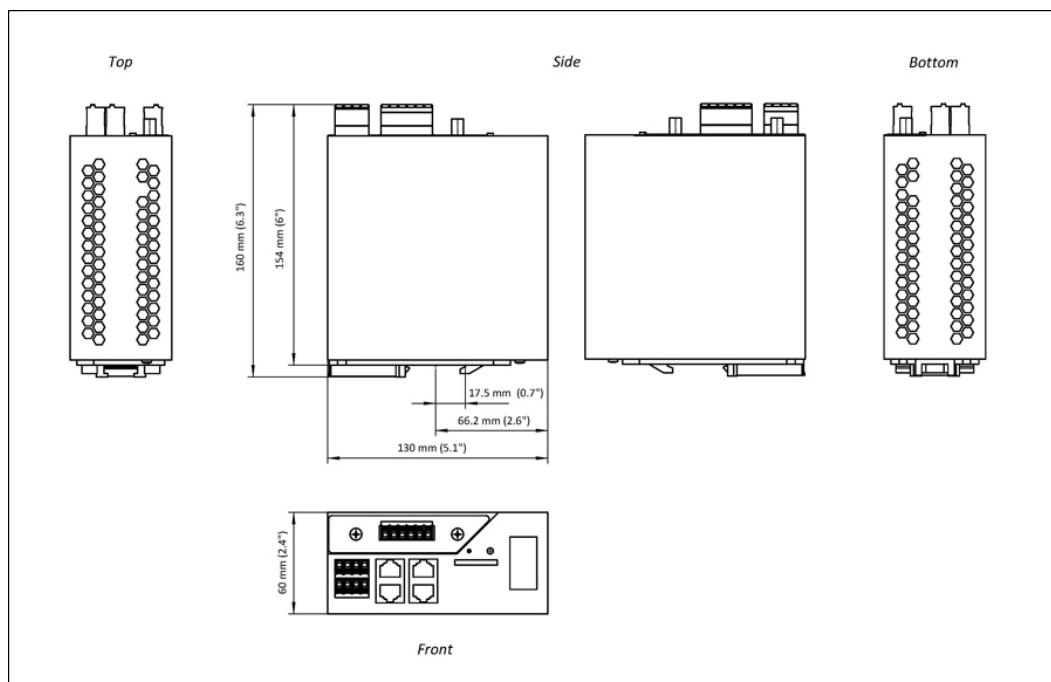
Device

Ethernet Extender

Documentation

Quick Installation Guide

Dimensions



Ordering Info

+ Model

ED20KEXT4PSW	4-port Managed 10/100BASE-TX Ethernet Extender with 2 SHDSL ports
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