

ED20KEXT

10/100BASE-TX Ethernet Extender



Product Highlights

Your Advantages

- Distances up to 12.4 miles (20 km)
- Up to 15.3 Mbps in 2-wire operation
- Robust modulation method (SHDSL)
- Automatic SHDSL data rate detection
- Network transparent (no IP configuration required)
- Automatic network data rate detection (10/100 Mbps)
- Easy startup, plug and play
- Alarm and signal output
- Remote diagnostics via IP and automatic event messages via SNMP

Overview

EtherWAN's ED20KEXT is a managed Ethernet extender with point-to-point connections, data rates of up to 15.3 Mbps, distances of up to 12.4 miles (20 km) on in-house copper cables, replaceable surge protection, 1 SHDSL port, 1 LAN port, and diagnostics via Ethernet.

Ordering Information

Model

ED20KEXT	Managed 10/100BASE-TX Ethernet Extender with 1 SHDSL port + 1 LAN port
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Hardware Specifications

Performance		+
Max Distance	12.4 miles (20 km) Depending on data rate and cable cross section	
Max Speed	15.3Mbps	
Cabling Limitations	Conductor cross section solid: Min: 0.2 mm ² Max: 1.5 mm ² Conductor cross section flexible: Min: 0.2 mm ² Max: 2.5 mm ² Conductor cross section AWG: Min: 24 Max: 16	
Interface		+
Ethernet	1 x 10/100Base-T(X)	
Extender Ports	1 x RJ45 socket	
LED Indicators	Power, Surge Protection, DSL, Device Information	
Technology		+
Standards	IEEE 802.3	
Processing Type	Auto-negotiation SHDSL interface according to ITU-T G.991.2.bis	
Power		+
Input	10VDC to 60VDC	
Typical current consumption	80 mA (60 VDC) 200 mA (24 VDC) 380 mA (10 VDC)	
Physical		+
Casing Material	Aluminum / steel sheet DC01	
IP Rating	IP20	
Dimensions	60 x 130 x 160 mm (W x D x H) 2.4" x 5.1" x 6.3"	
Weight	1.7 lbs (27.7 oz/786 g)	
Installation Type	DIN Rail	
Environmental		+
Operating Temp.	-40 to 165°F (-40 to 74°C)	
Storage Temp.	-40 to 185°F (-40 to 85°C)	
Relative Humidity	10 % to 95 % (non-condensing)	
Altitude	< 8200 ft (2500 m) (For restrictions, see the manufacturer's declaration for altitude operation)	
MTBF	577 Years (SN 29500 standard, temperature 77°F/25°C, operating cycle 21%) 300 Years (SN 29500 standard, temperature 104°F/40°C, operating cycle 34.25%) 128 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	
Traffic	NEMA TS2	
Warranty		+
Length	Limited Lifetime	
Details	www.etherwan.com/support/warranty-policy	
What's Included		+
Device	Ethernet Extender	
Cables	Preassembled data cable	

Software Features

Management		+
DHCP Client		
IPv4, IPv6		
SNMP		
Remote diagnostics via IP		
TCP/IP		
ARP		
Web management		
Security		+
System logging		
HTTP/HTTPS for web security		

Diagrams

Schematic Diagram (Front View)

1. Power LED Indicator
2. Surge Protection LED Indicator
3. DSL LED Indicator
4. SD Card Slot
5. Reset Button
6. DSL Mode Switch
7. Ethernet Connection
8. Power 1 and Power 2
9. Digital Output 1 Connection
10. Protection Module
11. SHDSL Connection
12. Info Button

