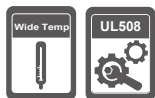


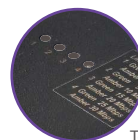
ED3331 Series

Industrial 10/100BASE-TX Ethernet Extender over Coaxial Cable



Value

- › Alternative long-distance Ethernet solution to reduce infrastructure cost and shorten the project schedule by using existing coaxial cable
- › Specific design for industrial communication applications with UL508 safety certification



Ten speed indicator LEDs for real-time data rate display

Features

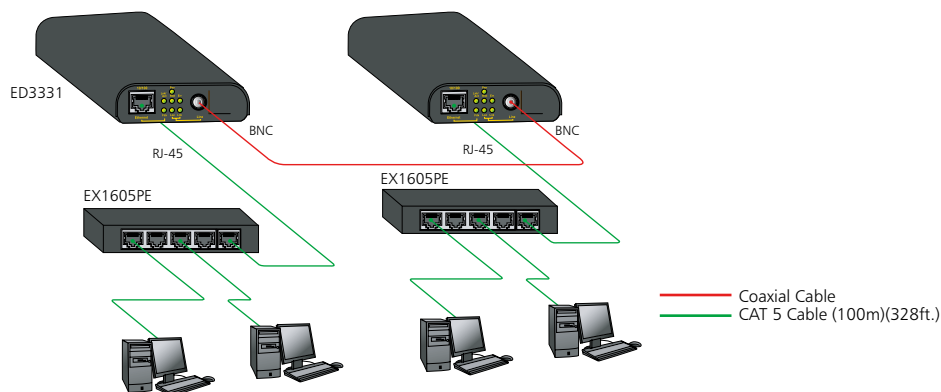
- › Operates transparent to higher layer protocols
- › Ethernet Port: 10/100Mbps-Full-duplex, Auto-Negotiation, Auto-MDI/MDIX
- › Ethernet Extender Port: Symmetrical on the VDSL, High-speed full-duplex up to 170 Mbps communications link over existing coaxial cable
- › Supports DIP switch to select Local or Remote side
- › Ten reference speeds supports Up to 85Mbps @ about 200meters (656ft.), 1Mbps @ about 2600 meters (8,530ft.)
- › -10°C to 60°C (14°F to 140°F) operating temperature range
- › Hardened aluminum case
- › Supports Din-Rail, Wall Mounting installation
- › Supports EMC1600 chassis system installation for easy management and power redundancy accomplishment

Ordering Information

ED3331-00Z Industrial 10/100BASE-TX Ethernet Extender over Coaxial Cable

External Power Adapter Options:

- (Z) = A: with external power adapter for AU
 E: with external power adapter for EU
 J: with external power adapter for JP
 K: with external power adapter for UK
 U: with external power adapter for USA
 3C: with external power adapter for China



Specifications

Technology		
Standards	• IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3x	
Protocols	• Transparent to higher layer protocols	
Processing Type	• IEEE802.3x Full-duplex flow control	
Power		
Input	• Input Voltage: 12VDC	
Power Consumption	• 5.76W Max. 0.48A @ 12VDC	
Mechanical		
Casing	• Aluminum case	
Dimensions	• 80.3mm (W) x 109.2mm (D) x 23.8mm (H) (3.16" (W) x 4.30" (D) x 0.94" (H))	
Weight	• 150g (0.33lb.)	
Installation	• DIN-Rail (Top hat type 35mm), Wall Mounting • EMC1600 Chassis	
Interface		
Ethernet Port	• Port: One RJ-45 port, 10/100BASE-TX Full-duplex Auto-Negotiation, Auto-MDI/MDIX • Distance: 100meters (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 75Ω BNC Port (with F-type connector) • Speed Display: 1/5/10/20/30/40/50/60/70/75Mbps • Max. Distance: 2,600meters (8,530ft.) • Cable: Coaxial Cable (5C2V / RG6AU)	
Speed / Distance Reference	Speed	Distance
	1-5Mbps	2,600M(8,530ft.)
	6-10Mbps	2,400M(7,874ft.)
	11-16Mbps	2,000M(6,561ft.)
	17-20Mbps	1,800M(5,905ft.)
	21-29Mbps	1,600M(5,249ft.)
	30-43Mbps	1,400M(4,593ft.)
	44-54Mbps	1,200M(3,937ft.)
	55-63Mbps	1,000M(3,280ft.)
	64-74Mbps	600M(1,968ft.)
75-85Mbps	200M(656ft.)	
DIP switch	• One DIP Switch: Local (CO) or Remote (CPE)	
LED Indicators	• Per Unit: Power Status (Power) • Per Port: 10/100TX: Link/Activity, Full-duplex Line: Error, Link, Local, Remote NOTE: All speed selections are Symmetrical on the DSL.	

Environment	
Operating Temperature	-10°C to 60°C (14°F to 140°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Ambient Relative Humidity	5% to 95% (non-condensing)
Regulatory Approvals	
ISO	Manufactured in an ISO9001 facility
Safety	UL508
EMI	- FCC Part 15, Class A - VCCI, Class A - EN61000-6-3 - EN55022 - EN61000-3-2 - EN61000-3-3
EMS	- EN61000-6-2 - EN61000-4-2 (ESD Standards) Contact: + / - 4KV Air: + / - 8KV - EN61000-4-3 (Radiated RFI Standards) 10V/m, 80 to 1000MHz; 80% AM - EN61000-4-4 (Burst Standards) Signal Ports: + / - 1KV D.C. Power Ports: + / - 2KV - EN61000-4-5 (Surge Standards) Signal Ports: + / - 1KV; Line-to-Line D.C. Power Ports: + / - 0.5KV; Line-to-earth - EN61000-4-6 (Induced RFI Standards) Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM - EN61000-4-8 (Magnetic Field Standards) 30A/m @ 50, 60Hz
Environmental Test Compliance	- IEC60068-2-6 Fc (Vibration Resistance) 5g @ 10 - 150Hz, Amplitude 0.35mm (Operation/Storage/Transport) - IEC60068-2-27 Ea (Shock) 25g @ 11ms (Half-Sine Shock Pulse; Operation) 50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport) - FED STD 101C Method 5007.1 (Free fall w/ package) -Tested with Cross Weight and Drop High standard table

Diagrams

Unit: mm

