ED3341 Series
Hardened 10/100BASE-TX Ethernet Extender over Coaxial Cable

Value

UL508 EN50155 EN50121-4 Extended Temperature

- Complies with EN50155 standard requirement for Rolling Stock Ethernet applications
- Complies with EN50121-4 standard requirement for Railway stationary Ethernet applications
- Alternative long-distance Ethernet solution to reduce infrastructure cost and shorten the project schedule by using existing coaxial cable

Features

- Complies with NEMA TS1 & TS2 Environmental requirements for Traffic control equipment
- Specific design for industrial communication application with UL508 safety certification
- Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment
- Ethernet Port: 10/100Mbps-Full-duplex, Auto-Negotiation, Auto-MDI/MDIX
- Ethernet Extender Port: Symmetrical on the VDSL, High-speed full-duplex up to 85 Mbps communications link over existing coaxial cable

- IEEE802.3x Flow control for full duplex
- Ten speeds with speed indicator LEDs on front panel of unit,
  . Up to 85Mbps @ about 200meters (656ft.)
  . 1Mbps @ about 2,600meters (8,530ft.)
- -40°C to +70°C (-40°F to 158°F) operating temperature range
- Redundant power inputs with Terminal Block and DC Jack
- DIP switch to select Local or Remote side
- Hardened aluminum case
- Compatible with ED3331, ED3344 and ED3371
- Supports DIN-Rail, Panel and Rack Mounting installation

Ordering Information

ED3341-00B   Hardened 10/100BASE-TX Ethernet Extender over Coaxial Cable

Power Supply : (Optional)
*Option A - The Terminal Block type external power supplies are not included. Please order the following part numbers:
DR-30-24, DR-60-24, DR-75-24, DR-120-24 or 41-136046-X (X)=1: US, 2: EU, 3: UK, 4: AU, 5: JP
**Option B - The external power adapters and power cords are not included. Please order the following part numbers:
41-136044-X (X)=1: US, 2: EU, 3: UK, 4: AU, 5: JP

Installation Type : Optional Panel mount kit, part number: KP-AA96-480

* All specifications and photos are subject to change without notice.

Specifications

Technology	
Standards	IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, IEEE802.3x, Ethernet over VDSL
Protocols	Transparent to higher layer protocols
Processing Type	IEEE802.3x Full-duplex flow control

Power	
Input	Input Voltage: 12 to 48VDC (Terminal Block); 12VDC (DC Jack)
Power Consumption	7.2W Max. 0.6A @ 12VDC, 0.15A @ 48VDC
Overload Current Protection	Present
Reverse Polarity Protection	Present

Mechanical	
Casing	Aluminum case IP30
Dimensions	50mm (W) x 110mm (D) x 135mm (H) (1.97" (W) x 4.33" (D) x 5.31" (H))
Weight	0.8Kg (1.76lbs.)
Installation	DIN-Rail (Top hat type 35mm), Panel, Rack Mounting

Interface	
Ethernet Port	Port: One RJ-45 port, 10/100BASE-TX Full-duplex Auto-Negotiation, Auto-MDI/MDIX Speed: 10/100Mbps 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 75 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 / RG6/ RG58AU)

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 and Fullduplex on the Ethernet.

Environment	
Operating Temperature	-40˚C to +70˚C (-40˚F to 158˚F) Tested @ -40˚C to +85˚C (-40˚F to 185˚F)
Storage Temperature	-40˚C to +85˚C (-40˚F to 185˚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 *EN61000-6-4 - EN55022 - EN61000-3-2 - EN61000-3-3
EMS	*EN61000-6-2 - EN61000-4-2 (ESD Standards) Contact: + / - 4KV; Criteria B Air: + / - 8KV; Criteria B - EN61000-4-3 (Radiated RFI Standards) 10V/m, 80 to 1000MHz; 80% AM Criteria A - EN61000-4-4 (Burst Standards) Signal Ports: + / - 4KV; Criteria B D.C. Power Ports: + / - 4KV; Criteria B - EN61000-4-5 (Surge Standards) Signal Ports: + / - 2KV; Line-to-Line; Criteria B D.C. Power Ports: + / - 0.5KV; Line-to-earth; Criteria B - EN61000-4-6 (Induced RFI Standards) Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM Criteria A D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM Criteria A - EN61000-4-8 (Magnetic Field Standards) 30A/m @ 50, 60Hz; Criteria A
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) *IEC60068-2-32 Ed (Free Fall) 1M (3.281ft.)

Dimensions

Unit: mm

Front   Side   Back   Top   Bottom