

ED3341 Hardened 10/100BASE-TX Ethernet Extender

Ethernet beyond 100 metres over coaxial cable



Wide Temp UL508 ITS Overview 01

The ED3341 is a point-to-point Ethernet Extender designed to operate in harsh environments that efficiently extends 10/100 Ethernet circuits to over 200M (656ft.) up to 85Mbits using existing coaxial cable, and 1Mbits transmit performance when the distance is up to 2,600 meters (8,530ft.). The ED3341 functions at temperatures ranging from -40°C to 75°C (-40°F to 167°F) and is tested for functional operation @ -40°C to 85°C (-40°F to 185°F). The ED3341 will allow Ethernet connectivity in existing facilities without pulling extra cable. This is the perfect solution to Ethernet on the legacy surveillance infrastructure where systems have been upgraded from analogue to IP-based. Installation is easy with a single switch setting; one end is set for local and the other remote. The FD3341 is used in pairs to extend Ethernet connectivity over existing coaxial cable

Features

- ≻ Complies with NEMATS1 & TS2 Environmental requirements for Traffic control equipment
- Complies with IEC61000-6-2 EMC Generic standard immunity 5 for Industrial environments
- 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

- Ten speeds with speed indicator LEDs on front panel of unit,
- ≻ Up to 85Mbps at about 200meters (656ft.) Down to 1Mbps at about 2,600meters (8,530ft.)
- -40°C to 75°C (-40°F to 167°F) operating temperature range \geq Redundant power inputs with Terminal Block and DC Jack
- DIP switch to select Local or Remote side
- Hardened aluminium case
- \triangleright Supports DIN-Rail Panel Rack Mounting installation

Ordering Information

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

Power Input Interface:

(Z) =B: Terminal Block & DC Jack

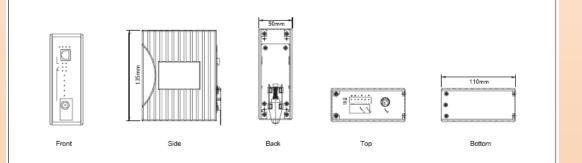
Power Supply: (Optional)

- Option A The Terminal Block type external power supply are not included. Please order the following part numbers, as required: DR-60-24. DR-75-24. DR-120-24 or 41-1360
- Option B The external power adapter and power cord are not included. Please order the following part numbers, as required: 41-136044-X X=1, 2,3,4,5

Installation Type:

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









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Specifications Technology			Environment	
Standards:			Operating Temperature:	
		02.3u 100BASE-TX, IEEE802.3x,	 -40°C to 70°C (-40°F to 158°F) 	
	hernet over VDSL		 Tested @ -40°C to 85°C (-40°F to 185°F) 	
Protocols:	ansparent to higher layer pro	atocols	Storage Temperature:	
Processing 1		JUCCOIS	 -40°C to 85°C (-40°F to 185°F) 	
	EE802.3x Full-duplex flow co	ontrol	Ambient Relative Humidity: • 5% to 95% (non-condensing)	
Power			 5% to 95% (non-condensing) Regulatory Approvals: 	
Input:			ISO:	
		erminal Block);12VDC (DC Jack)	 Manufactured in an ISO9001 facility 	
Power Cons	2W Max. 0.6A@12VDC, 0.1	54@48\/DC	Safety:	
	irrent Protection:	DA@48VDC	 UL508 	
	resent		EMI:	
Reverse Pol	arity Protection:		FCC Part 15, Class A	
	esent		• EN61000-6-4	
Mechanical			• EN55022	
Casing:			• EN61000-3-2	
	uminium case 30		• EN61000-3-3 EMS:	
Dimensions:			• EN61000-6-2	
	0mm (W) x 110mm (D) x 135	mm (H)	 EN61000-4-2 (ESD Standards) 	
(1	.97" (W) x 4.33" (D) x 5.31" ((H))	Contact: + / - 4KV; Criteria B	
Weight:			Air: + / - 8KV; Criteria B	
	8Kg (1.76lbs.)		 EN61000-4-3 (Radiated RFI Standards) 	
Installation: • DI	N-Rail (Top hat type 35mm)	Papel Rack Mounting	10V/m, 80 to 1000MHz; 80% AM Criteria	A
Interface	N-Rail (Top hat type 55hill)	, Taner Nack Mounting	EN61000-4-4 (Burst Standards)	
Ethernet Por	rt:		Signal Ports: + / - 4KV; Criteria B	
• Pc	ort: One RJ-45 port, 10/100B	ASE-TX Full-duplex	 D.C. Power Ports: + / - 4KV; Criteria B EN61000-4-5 (Surge Standards) 	
	uto-Negotiation, Auto-MDI/MI	DIX	 EN61000-4-5 (Surge Standards) Signal Ports: + / - 2KV; Line-to-Line; Crite 	ria F
	beed: 10/100Mbps		D.C. Power Ports: + / - 0.5KV; Line-to-ear	
Distance: 100meters (328ft.) Cable: 10PASE T: LTP CAT: 3: 4: 5 (2 pair wire)		2 4 5 (2 point with p)	 EN61000-4-6 (Induced RFI Standards) 	, .
 Cable: 10BASE-T: UTP CAT. 3, 4, 5 (2-pair wire) 100BASE-TX: UTP CAT. 5 (2-pair wire) 			Signal Ports: 10Vrms @ 0.15~80MHz; 80	% A
Ethernet Ext			D.C. Power Ports: 10Vrms @ 0.15~80MH	
	ort: One Coaxial Port		 EN61000-4-8 (Magnetic Field Standards) 	
• Sp	beed Display: 1/5/10/20/30/4	0/50/60/70/75Mbps	30A/m @ 50, 60Hz; Criteria A	
	ax. Distance: 2,600meters (8		Environmental Test Compliance:	
	able: Coaxial Cable (5C2V / I	RG6AU)	 IEC60068-2-6 Fc (Vibration Resistance) Fa @ 10, 150KHz, Amplitude 0.25mm 	
	ance Reference:		 5g @ 10~150KHz, Amplitude 0.35mm (Operation/Storage/Transport) 	
Speed			 IEC60068-2-27 Ea (Shock) 	
	ps 2,600M (8,530ft.)		25g @ 11ms (Half-Sine Shock Pulse; Ope	erati
6-10Mb			50g @ 11ms (Half-Sine Shock Pulse; Sto	
11-16Mb			• IEC60068-2-32 Ed (Free Fall)	0
17-20Mb			1M (3.281ft.)	
21-29Mb				
		NOTE:		
30-43Mb		All speed selections are Symme	netrical on	
44-54Mb	ps 1,200M (3,937ft.)	the DSL and Full-duplex on the		
55-63Mb				

One DIP switch: Local (CO) or Remote (CPE) ٠

- LED Indica Per Unit: Power Status (Power) ٠
 - •
 - Per Port: 10/100TX: Link/Activity, Full-duplex Line: Error, Link, Local, Remote

- В Criteria B
- AM Criteria A 80% AM Criteria A
- tion) ge/Transport)





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