B&B ELECTRONICS

PRODUCT INFORMATION

EIR205 Series
Industrial 5 Port Unmanaged Ethernet Switches in Thin DIN Rail Mount Case

Features

✓ Space saving, slim enclosure with DIN rail mount.

✓ Single and Multi-mode fiber optic options. ST or SC connectors available.

✓ 10/100M, full/half duplex, MDI/MDI-X (auto-negotiate).

✓ Supports IEEE 802.3/802.3u/802.3x standards.

✓ Range extension up to 80 km (50 miles) available.

✓ Wide power input with easy to connect removable terminal block.

✓ LED indicators for power, link, and activity.

Functional Description

EIR205 series switches are entry-level, unmanaged, plug-and-play industrial Ethernet switches. With a compact DIN rail case, LEDs for power and monitoring, wide power input with removable terminal blocks, auto-negotiation of speed, full-duplex and auto-cross, it is perfect for any application that doesn't require management features. Common features include broadcast storm protection, store and forward mechanism, and back- pressure / IEEE 802.3x flow control. Additionally, the switch contains a 48K byte memory buffer and supports 2K MAC addresses. Choose one with 5 copper 10/100M ports, or one with 4 copper 10/100M ports and 1 fiber optic Ethernet port. Fiber optic port options include multi-mode or single-mode fiber, with either ST or SC connectors. For extra long distances choose 40 km or 80 km single-mode fiber options. An external 10 – 48 VDC power supply is required (not included).

Ordering Information			
Model Number	10/100 Copper	Multi-Mode Fiber	Single-mode Fiber
EIR205	5		
EIR205-MT	4	1 (ST)	
EIR205-MC	4	1 (SC)	
EIR205-ST	4		1 (ST)
EIR205-SC	4		1 (SC)
EIR205-ST40			1 (ST) 40km
EIR205-SC40			1 (SC) 40km
EIR205-ST80			1 (ST) 80km
EIR205-SC80			1 (SC) 80km
Accessory Items			
MDR-20-24	DIN Rail Mount, 24 VDC, 1 A Power Supply		
MDR-40-24	DIN Rail Mount, 24 VDC, 1.7 A Power Supply		
DRPM25	Panel Mount Adapter		

We also offer a full line of Fiber Optic and RJ-45 Patch Cables
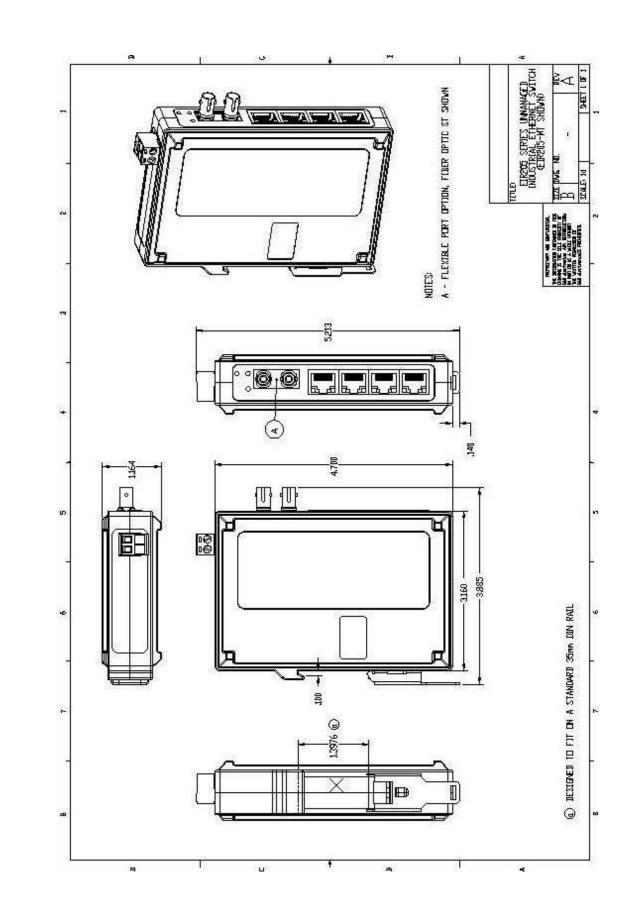
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Specifications

Technology

Standards:	IEEE802.3, 802.3u, 802.3x
Processing Type:	Store and forward with IEEE802.3x full duplex, non-blocking flow control
Flow Control:	IEEE802.3x flow control, back pressure flow control
Packet buffer memory:	48 K bytes
Address Table Size	2K MAC Addresses

Interface

RJ45 Ports:	10/100BaseT(x) auto negation, Full/Half duplex, auto MDI/MDI-connection
Fiber Ports:	100BaseFX ports (multi-mode or single-mode with ST or SC connector)
LED Indicators:	Power, 10/100M (TP port), and 100M (Fiber Port)

Fiber Optics

Model	Distance	Wavelength	Output Power	Sensitivity
EIR205-Mx	2 km	1310 nm	$^-$19 to $^-$30 dBm	≤ - 32 dBm
EIR205-Sx	15 km	1310 nm FP	$^-$15 to $^-$8 dBm	≤ - 32 dBm
EIR205-Sx40	40 km	1310 nm FP	$^-$5 to 0 dBm	≤ - 34 dBm
EIR205-Sx80	80 km	1550 nm DFB	$^-$5 to 0 dBm	≤ - 34 dBm

Note: Specifications for mixed fiber optic models are combinations of the above

Power

Input Voltage	10 to 48 VDC
Power Use	Copper Model: 90mA @ 24VDC, Fiber Optic Models: 140mA @ 24VDC
Input Connection	Removable Terminal Block
Protection	Reverse Polarity Protection
Wiring Information	14 to 22 AWG, Solid Copper, 1.7 lb-in torque, Wire temp rating 105 C Minimum, sized for 60 C Ampacity

Environmental

Op. Temperature	32 to 140 °F (0 to 60°C)
Storage Temperature	-40 to 176 °F (-40 to 80 °C)
Op. Humidity	0 to 95% Non-condensing
MTBF	248964 hours

Mechanical

Enclosure	IP 30 Plastic Case
Dimensions	
EIR205:	86.6x128.3x29.5mm(3.41x5.05x1.16in)
EIR205-xT:	97.8x128.3x29.5mm (3.85x5.05x1.16in)
EIR205-xC:	86.6x128.3x29.5mm (3.41x5.05x1.16in)
Weight:	EIR205: 150g (5.3 oz) EIR205-xx 156g (5.5 oz)
Installation:	35mm DIN Rail Mount

Regulatory Approvals

CE, FCC, UL

CE/FCC DoC Available for Download

UL File – E222870

RoHS - Yes

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NOTES:
A - FLEXIBLE PORT OPTION, FIBER OPTIC ST SHOWN

TITLE: EIR205 SERIES UNMANAGED INDUSTRIAL ETHERNET SWITCH <EIR205-KIT SHOWN>

REV A

SHEET 1 OF 1

SCALE: 16

① DESIGNED TO FIT ON A STANDARD 35mm DIN RAIL

5.213
4.700
3.885
3.160
1.164
1.3976
.340
.100

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