EIR208 Series
8 Port, Entry-level, Unmanaged, Industrial Ethernet Switches

B&B ELECTRONICS

Features

✓ Up to 3 multi or single-mode fiber ports on one compact switch

✓ ST or SC fiber connectors

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

✓ Supports IEEE 802.3, 802.3u, and 802.3x standards

✓ Industrial IP30 rated DIN rail case

✓ 10 to 48 VDC power input

✓ Store and forward mechanism

✓ Broadcast storm filtering

✓ Back-pressure and IEEE 802.3x compliant flow control

✓ 2K MAC addresses

✓ 64K byte memory buffer

Functional Description

   Designed to fit many applications, The EIR208 series are entry-level, plug-and-play industrial Ethernet Switches. With a compact IP30 DIN rail case, LEDs for power and activity, 10 to 48 VDC power input with removable terminal blocks, auto-negotiation of speed, duplex and auto-cross, these switches are perfect for any applications that doesn't require management features. Choose a switch with eight copper ports, or a combination of copper and up to three fiber ports. Multi-mode fiber models extend range up to 2 km. Single-mode fiber models extend range up to 15 km. 40 km and 80 km models are available upon request. All models require an external power supply (sold separately).

Ordering Information			
Model Number	10/100 Copper	Multi-Mode Fiber	Single-mode Fiber
EIR208	8		
EIR208-MT	7	1 (ST)	
EIR208-MC	7	1 (SC)	
EIR208-ST	7		1 (ST)
EIR208-SC	7		1 (SC)
EIR208-2MT	6	2 (ST)	
EIR208-2MC	6	2 (SC)	
EIR208-2ST	6		2 (ST)
EIR208-2SC	6		2 (SC)
EIR208-3MT	5	3 (ST)	
EIR208-3MC	5	3 (SC)	
EIR208-3ST	5		3 (ST)
EIR208-3SC	5		3 (SC)

Other port combinations, including 40km & 80km, are available.

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

PRODUCT INFORMATION

B&B electronics MANUFACTURING COMPANY

International Headquarters: 815-433-5100 *www.bb-elec.com*
European Headquarters: +353 91 792444 *www.bb-europe.com*

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PRODUCT INFORMATION

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:	64K bytes
Address Table Size	2K MAC Addresses

Interface

RJ45 Ports:	10/100BaseT(X) auto negation, Full/Half duplex, auto MDI/MD-X
Fiber Ports:	100BaseFX, (multi-mode or single–mode with ST or SC connectors)
LED Indicators:	Power, (Link and Speed for each port)

Fiber Optics

Fiber Type	Distance	Wavelength	Output Power	Sensitivity
Multi-mode	2 km	1310 nm	Neg. 19 to Neg. 14 dBm	≤ Neg. 32 dBm
Single-mode	15 km	1310 nm	Neg. 15 to Neg. 8 dBm	≤ Neg. 32 dBm
Single-mode	40 km	1310 nm	Neg. 5 to Neg. 0 dBm	≤ Neg. 34 dBm
Single-mode	80 km	1510 nm	Neg. 5 to Neg. 0 dBm	≤ Neg. 34 dBm

Power

Input Voltage	10 to 48 VDC
Power Consumption	5.8 W Max
Current Draw	0.22 A @ 24VDC (0.57 A Max)
Input Connection	Removable Terminal Block
Protection	Reverse Polarity Protection

Environmental

Op. Temperature	0 to 55 C (32 to 134 F)
Storage Temperature	-40 to 80 C (-40 to 176 F)
Humidity	0 to 95% Non-condensing
MTBF	106,000 hours
MTBF Calculation	Parts count reliability prediction

Mechanical

Enclosure	IP30 DIN mount plastic case
Dimensions (w/ST Con)	4.5 x 7.1 x 1.9 in (11.6 x 18.2 x 4.7 cm)
Dimensions (w/SC Con)	4.2 x 7.1 x 1.9 in (10.6 x 18.2 x 4.7 cm)
Dimensions (all Copper)	4.2 x 7.1 x 1.9 in (10.6 x 18.2 x 4.7 cm)
Installation	35 mm DIN

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

B - FLEXIBLE PORT OPTION, RJ-45 SHOWN

C - FLEXIBLE PORT OPTION, RJ-45 SHOWN

TITLE:
EIR208 SERIES UNMANAGED
INDUSTRIAL ETHERNET SWITCH
(EIR208-HT SHOWN)

SIZE: B
DWG NO.: -
REV

SCALE: 1:2
SHEET 1 OF 1

7.118

.140

1.852

6.703

3.957

4.674

.100

1.3976

DESIGNED TO FIT ON A STANDARD 35mm DIN RAIL

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