

EIR203 Series

3 Port Unmanaged Industrial Ethernet Switch

- ✓ 10 to 48 VDC External Power Input
- ✓ Store and Forward
- ✓ Broadcast Storm Filtering
- ✓ Back Pressure and 802.3x Flow Control
- ✓ 2K MAC Address Table
- ✓ Three Flexible Ports for virtually any fiber and copper combination



Designed to fit many applications, The EIR203 series are entry-level, plug-and-play industrial Ethernet Switches. With a compact IP30 DIN rail case, LEDs for power and activity, 10 to 50 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 three fiber ports, three copper ports, or any combination. 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).

Model Number	Ordering Information		
	10/100 Copper	Multi-Mode Fiber	Single-mode Fiber
EIR203	3		
EIR203-MT	2	1 (ST)	
EIR203-MC	2	1 (SC)	
EIR203-ST	2		1 (ST)
EIR203-SC	2		1 (SC)
EIR203-2MT	1	2 (ST)	
EIR203-2MC	1	2 (SC)	
EIR203-2ST	1		2 (ST)
EIR203-2SC	1		2 (SC)
EIR203-3MT	0	3 (ST)	
EIR203-3MC	0	3 (SC)	
EIR203-3ST	0		3 (ST)
EIR203-3SC	0		3 (SC)

These are only our most popular variations. Visit www.bb-elec.com/ElinxConfigurator to configure to configure your switch with virtually any port combination

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

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 and activity

Fiber Optics

Model	Distance	Wavelength	Output Power	Sensitivity
EIR102-Mx	2 km	1310 nm	-19 to -30 dBm	≤ - 32 dBm
EIR102-Sx	15 km	1310 nm FP	-15 to -8 dBm	≤ - 32 dBm
EIR102-Sx40	40 km	1310 nm FP	-5 to 0 dBm	≤ - 34 dBm
EIR102-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	3.8 W
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 3 CU	289389 hours
MTBF 2 CU 1 FO	273117 hours
MTBF 1 CU 2 FO	254161 hours
MTBF 3 FO	233149
MTBF Calc Method	Parts Count Reliability Prediction

Mechanical

Enclosure	IP 30 Plastic Case
Dimensions (ST)	5.0x1.2x3.5 in (12.8x3.0x9.0 cm)
Dimensions (SC)	5.0x1.2x3.1 in (12.8x3.0x8.0 cm)
Installation	35mm DIN Rail Mount

Regulatory Approvals

CE, FCC, UL
CE/FCC DoC Available for Download
UL File – E222870
RoHS - Yes

