

Model: EIR508 Series Eight Port Managed Industrial Ethernet Switches





Features

- √ X-Ring Automatic Recovery
- ✓ Dual 12 to 48 VDC Power Inputs
- ✓ Relay Alarm Output
- ✓ IP30 DIN Rail or Panel Mount
- ✓ Wide Operating Temperature
- ✓ Automatic E-mail Notification for system events
- ✓ SNMP or Web GUI Management

Functional Description

The Elinx EIR508 series of Industrial Managed Ethernet Switches provide powerful functionality in a small package. Designed for industrial applications, these switches contain all the standard features of other switches, such at IGMP Snooping, Port Based VLAN, 802.1Q Tag VLAN, RJ-45 automatic MDI/MDI-X, auto negotiation, store and forward switching, STP, RSTP, Web Based Management, Ingress Packet Filtering, and Egress Rate Control. These managed switches also come with important industrial features to ensure reliability in an industrial application. X-Ring technology with coupling ring and dual homing allows automatic recovery in less than 300 MS. Dual power inputs ensure reliability. A relay alarm output for port failure notification. DIN Rail and Panel Mounting options on the same IP30 case. Another important feature is automatic e-mail notification for system events such as a cold start, change in network topology, power status or SNMP authentication failure.

Ordering Information

Model Number	Description
EIR508-T	Industrial Managed Ethernet Switch, 8 10/100 RJ-45 Ports
EIR508-2MC-T	Industrial Managed Ethernet Switch, 6 10/100 RJ-45 Ports, 2 MM FO (SC) Port
EIR508-2MT-T	Industrial Managed Ethernet Switch, 6 10/100 RJ-45 Ports, 2 MM FO (ST) Port
EIR508-2SC-T	Industrial Managed Ethernet Switch, 6 10/100 RJ-45 Ports, 2 SM FO (SC) Port (30 KM)



Specifications

Technology

802.3 10Base-T Ethernet, 802.3u 100Base-TX and 100Base-FX Fast Ethernet IFFF Standards

802.3x Flow Control and Back Pressure, 802.1d Spanning Tree, 802.1w Rapid Spanning Tree

802.1p Class of Service, 802.1Q VLAN Tag

Processing Type Store and Forward

Flow Control Flow control on full duplex, Back Pressure on half duplex

MAC Address Table Size 2 KB Memory Buffer 1 MB Protocol CSMA/CD

Management SNMP, Web GUI, and reset to factory default button

Transfer Rate 14,880 bps for Ethernet ports, 14,8800 for Fast Ethernet ports

Transfer Packet Size 64 bytes to 1522 bytes (with VLAN tag)

Packet throughput ability 1.49 Mbps @ 64 bytes

2 ports for X-Ring provide redundant backup with a recovery time below 300 MS. X-Ring

Packet Filter 4 Selection Rules to filter combinations of Broadcast, Multicast, Unicast, and Unknown packets.

Port based and Tag. Up to 64 VLAN groups VI AN

Class of Service 4 priority queues per port

Port based, Tag based, or IPv4 Type of Service Quality of Service **IGMP** IGMP v1 and Query mode. Up t o 256 groups

SNTP Clock Synchronization Management Security IP Address

Port Mirror TX packet only or TX and RX packet

Firmware Update **TFTP**

DHCP DHCP Client Function to obtain addresses from DHCP server

Bandwidth Control Ingress Packet Filter rules and Egress Rate Control

Interface

RJ-45 Ports 10/100BaseT with auto negotiation, Full/Half Duplex, MDI/MDI-X Fiber Ports 100Base FX, single-mode or multi-mode with ST or SC connectors Port Indicators (each port) Green LED for Link / Activity and Yellow LED for Full Duplex / Collision System Indicators Green LEDs for Power, Power 1, Power 2, and Master. Yellow LED for Fault.

Fiber Optics

Fiber Type Distance Wavelength Cable Output Optical Power Input Power Min Multimode 2 KM 1310 nm 62.5/125 um -10 to 0 dBm < -28 dBm Single Mode 30 KM 1310 nm 9/125 um -15 to -8 dBm < -34 dBm

Power

Input Voltage 12 to 48 VDC, dual source

Current Consumption 0.8 A max. Input Connection Terminal Block Relay Alarm 1A @ 24VDC

Mechanical

Enclosure IP30 Aluminum Case 35 mm DIN or Panel Mount

Dimensions 2.3 x 5.7 x 4.3 in (5.8 x 14.5 x 10.9 cm)

CE Declaration of Conformity

Manufacturer's Name **B&B Electronics Mfg CO** 707 Dayton Road Manufacturer's PO Box 1040 Address Ottawa, IL 61350 USA Model Numbers EIR508-T, EIR508-2xx-T series Description Industrial Managed Switch Light Industrial ITE Equipment Type

Application of Council Directive 89/336/EEC Standards EN55022

> EN61000-4-2, -4-3, -4-4, -4-5 EN61000-4-6, -4-8, -4-11, -4-12

EN61000-6-2, -6-4

Michael J. Fahrion, Director of Engineering

SNMP MIB SNMP Trap

Up to 3 Trap Stations RFC 1493 Bridge MIB Cold Start RMON RFC 1757 Port link up RFC 2674 VLAN MIB Port link down RFC 1643 Ethernet like MIB Authentication Failure

RFC 1215 Trap MIB Power status Private MIB for switch info Port Alarm Fault Alarm X-Ring

Environmental

RFC 1213 MIBII

-40 to 167 F (-40 to 75 C) Operating Temperature -40 to 185 F (-40 to 85 C) Storage Temperature Operating Humidity 0 to 95% NC MTBF EIR508-T 319175 hours MTBF EIR508-2xx-T 315109 hours

Regulatory Approvals

FCC Class A

EN6100-4-2, -4-3, -4-4, EN6100-4-5, -4-6

EN60950 Safety Free Fall IEC60068-2-32 IEC60068-2-27 Shock Vibration IEC60068-2-6

