

Model: EIR608-2SFP and EIR608-4SFP

Gigabit Eight Port Managed Industrial Ethernet Switches





Features

- √ X-Ring Automatic Recovery
- ✓ Up to 8 10/100/1000TX RJ45 Ports with MDI/MDI-X
- √ (2 or 4) 100/1000 SFP Ports
- ✓ Dual 12 to 48 VDC Power Inputs
- ✓ Relay Alarm Output
- ✓ IP30 DIN Rail or Panel Mount
- ✓ Automatic E-mail Notification for system events
- ✓ SNMP, CLI, or Web Management
- ✓ Port Mirror and Port Trunk with LACP

Functional Description

The Elinx EIR608-xSFP series Industrial Gigabit 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. The EIR608-xSFP is also Gigabit capable and comes with 2 or 4 SFP ports which allow the addition of fiber optic ports.

Ordering Information

| M | lodel Number | Description |
|---|--------------|--|
| Е | IR608-2SFP | 8 Port Gigabit Industrial Managed Switch w/ 6 copper & (2) copper or SFP Combo ports |
| Е | IR608-4SFP | 8 Port Gigabit Industrial Managed Switch w/ 4 copper ports and 4 SFP ports |



Specifications

Technology

802.3 10Base-T Ethernet, 802.3u 100Base-TX and 100Base-FX Fast Ethernet, 802.3ab 1000Base-TX **IEEE 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, 802.3z Gigabit fiber, 802.3ad Port Trunk with LACP,

802.1x User Authentication

Store and Forward **Processing Type**

Flow Control Flow control on full duplex, Back Pressure on half duplex 8 KB

MAC Address Table Size Packet Buffer 1M bit Flash ROM 4M byte DRAM 32M byte Protocol CSMA/CD

Management SNMP (v2, v2C, V3), Web GUI, TELNET, CLI.

Management Security Up to 10 IP addresses can have permission to manage the switch. 802.1x (RADIUS) Authentication

Transfer Rate 14,880 pps 10BaseT, 148,800 100BaseTX/FX, 1,488,000 Gigabit

Packet throughput ability 23.8 Mbps @ 64 bytes

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

Packet Filter 4 Selection Rules to filter combinations of Broadcast, Multicast, Unicast, and Unknown packets. **VLAN** Port based / Tag (256 entries) / VLAN ID (up to 4K) / GRVP (256 groups) / Double Tag VLAN (Q in Q)

Private VLAN

LACP Port Trunk. 4 Trunk Groups. Maximum 4 Trunk Members Port Trunk

Class of Service 4 priority queues per port

Quality of Service Port based, Tag and IPv4 Type of Service, IPv4 / IPv6 Different Service

IGMP IGMP snooping v1, v2. 256 multicast groups and IGMP query

Clock Synchronization SNTP

Port Mirror TX packet only or TX and RX packet

Firmware Update **TFTP**

DHCP Client Function to obtain addresses from DHCP server **DHCP**

Bandwidth Control Ingress Packet Filter rules and Egress Rate Control

Interface

EIR608-2SFP: (6) RJ45 10/100/1000, (2) RJ-45 10/100/1000 or SPF Mini-GBIC Combo (RJ45 disabled LAN/WAN Ports

when SFP installed), (SFP ports are 100/1000)

EIR608-4SFP: (4) RJ45 10/100/1000, (4) SPF Mini-GBIC (SFP ports are 100/1000)

Console Port RS-232 RJ-45 (Adapter Cable Included)

Port Indicators (each port) Green LED for Link / Activity, Green LED for speed 1000M, Green LED for SFP Link Activity

System Indicators Green LEDs for Power, Power 1, Power 2, and Master. Yellow LED for Fault.

Power

12 to 48 VDC, dual source Input Voltage

1.4 A max **Current Consumption** Input Connection Terminal Block Relay Alarm 1A @ 24V

Mechanical

Enclosure IP30 Aluminum Case Mount 35 mm DIN or Panel

Dimensions 2.9 x 4.2 x 6.4 in (7.4 x 10.7 x 16.3 cm)

CE Declaration of Conformity

Manufacturer's Name B&B Electronics Mfg CO Manufacturer's 707 Dayton Road Address PO Box 1040 Ottawa, IL 61350 USA Model Numbers EIR608-2SFP, EIR608-4SFP Description Industrial Managed Switch

Light Industrial ITE Equipment Type

Application of Council Directive 89/336/EEC EN55022 Standards

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

Michael J. Fahrion, Director of Engineering

SNMP MIB

SNMP Trap RFC 1213 MIBII 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

RFC 1157 SNMP MIB Port Alarm **RSTP MIB** Fault Alarm Private MIB for switch info X-Ring

Environmental

Operating Temperature 14 to 140 F (-10 to 60 C) Storage Temperature -40 to 185 F (-40 to 85 C)

Operating Humidity 0 to 95% NC MTBF EIR608-2SFP 220593 MTBF EIR608-4SFP 286945

Regulatory Approvals

FCC Class A **EMI**

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

EN60950 Safety Free Fall IEC60068-2-32 Shock IFC60068-2-27 Vibration IEC60068-2-6



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