

**B&B ELECTRONICS**

18 Port Managed Industrial Ethernet Switches with SFP Gigabit Ports

EIR618-2SFP-T

PRODUCT FEATURES

- X-Ring automatic recovery
- 16 10/100 TX RJ45 ports with MDI/MDI-X
- 2 combo 10/100/1000TX RJ45 or 100/1000 SFP ports
- Dual 12 to 48 VDC power inputs
- Wide operating temperature
- 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

The Elinx™ EIR618-2SFP-T Industrial Managed Ethernet Switch provides powerful functionality in a small package. Designed for industrial applications, this switch contains all the standard features of other switches, such as 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
EIR618-2SFP-T	Industrial Managed Ethernet Switch, 16 10/100 RJ45 Ports, plus 2 Combo 10/100/1000 RJ45 or SFP Mini-GBIC Ports

ACCESSORIES

MDR-60-24 - DIN Rail Power supply 24VDC, 2.5A, 60W

C5UMB3FBL - 3 ft. (1 M) - Blue - Category 5e UTP Patch Cord

DFMM-LCLC-1M - Multi-Mode Duplex Fiber Cable, LC To LC, 1 Meter

DFSM-LCLC-1M - Single-Mode Duplex Fiber Cable, LC To LC, 1 Meter

SFP-1000SX-M-550M-T - SFP Module, 1000Base-SX, Multi-mode 550m, LC Connector (-40 to 85°C)

SFP-100FX-M-2KM-T - SFP Module, 100Base-FX, Multi-mode 2km, LC Connector (-40 to 85°C)

SFP-1000LX-S-10KM-T - SFP Module, 1000Base-LX, Single-mode 10km, LC Connector (-40 to 85°C)

SFP-1000LX-S-20KM-T - SFP Module, 1000Base-LX, Single-mode 20km, LC Connector (-40 to 85°C)

SFP-100FX-S-30KM-T - SFP Module, 100Base-FX, Single-mode 30km, LC Connector (-40 to 85°C)

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SPECIFICATIONS

TECHNOLOGY	
IEEE Standards	802.3 10Base-T Ethernet, 802.3u 100Base-TX and 100Base-FX Fast Ethernet, 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, 802.3ad Port Trunk with LACP, 802.1x RADIUS, 802.3ab 1000BaseT, 802.3z Gigabit fiber
Processing Type	Store and Forward
Flow Control	Flow control on full duplex, Back Pressure on half duplex
MAC Address Table Size	8 KB
Memory	4MB Flash ROM, 32MB DRAM
Protocol	CSMA/CD
Management	SNMP v1, v2c, v3, Web GUI, TELNET, CLI, Menu Driven Interface
Management Security	Up to 10 IP addresses can have permission to manage the switch. 802.1x (RADIUS) Authentication
Transfer Rate	14,880 bps for 10Base-T Ethernet ports, 148,800 for 100Base-TX/FX Fast Ethernet ports 1,488,000 bps for Gigabit Fiber Ethernet ports
Packet throughput ability	10.7 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 and Tag. Up to 256 VLAN groups. GVRP (256 Groups)
Port Trunk	LACP Port Trunk. 4 trunk groups / maximum of 4 trunk members.
Class of Service	4 priority queues per port
Quality of Service	Port based, Tag based, or IPv4 Type of Service, IPv6 Different Service
IGMP	IGMP Snooping v1, v2, and v3. 256 multicast groups and IGMP query
Clock Synchronization	SNTP
Management Security	IP Address, 802.1x RADIUS
Port Security	Static MAC (100 entries) / MAC Filter (100 entries)
Port Mirror	TX packet only, RX packet only, or TX and RX packet
Firmware Update	TFTP, TFTP backup and restore
DHCP	DHCP Client / DHCP Server
Bandwidth Control	Ingress packet filter and Egress packet limit

INTERFACE	
LAN/WAN Ports	16 RJ45 10/100TX, 2 Combo RJ45 10/100/1000 or SFP ports (RJ45 ports disabled when SFP installed)
Console Port	RS-232 RJ45 (DB9 to RJ45 adapter cable included)
Port Indicators (each port)	10/100: Link/Activity (Green), Full-duplex/Collision (Yellow), Giga Copper: Link/Activity (Green), Speed (1000Mbps Green), SFP: Link/Activity (Green)
System Indicators	Green LEDs for Power, Power 1, Power 2, and Master. Orange LED for Fault.
POWER	
Input Voltage	12 to 48 VDC, dual source
Current Consumption	1.1 A max.
Input Connection	Terminal Block
Relay Alarm	1A @ 24VDC
ENVIRONMENTAL	
Operating Temperature	-40 to 167°F (-40 to 75°C)
Storage Temperature	-40 to 185°F (-40 to 85°C)
Operating Humidity	0 to 95% Non-condensing
MTBF	243301 hours
MECHANICAL	
Enclosure	IP30 DIN mount metal case
Mount	35 mm DIN or Panel
Dimensions	7.4 x 10.7 x 16.3 cm (2.9 x 4.2 x 6.4 in)
REGULATORY APPROVALS	
EMI	FCC Class A EN6100-4-2, -4-3, -4-4, EN6100-4-5, -4-6
Safety	EN60950
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6