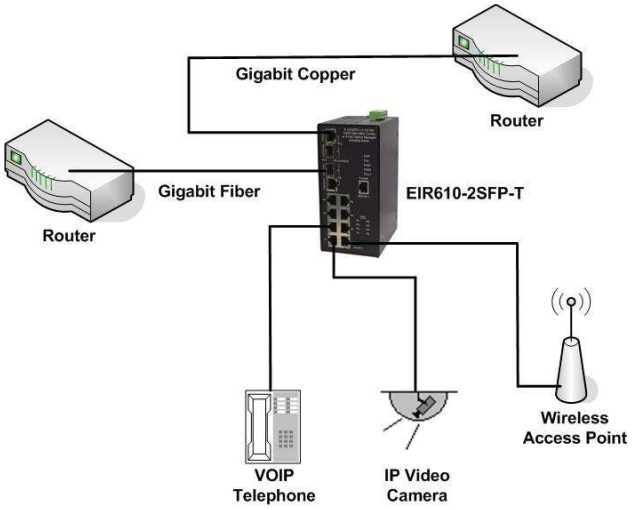
B&B ELECTRONICS

PRODUCT INFORMATION

Elinx™ EIRP610-2SFP-T

Managed Industrial Ethernet Switch with 2 Gigabit RJ-45/SFP Combo Ports, 8 PoE Ports

- ✓ **Eight 10/100 BaseT 802.3af End Point PoE Injector Ports**
- ✓ **Two RJ-45/SFP Combo Slots for Gigabit Ehternet**
- ✓ **Redundant Ring Technology for Fast Recovery**
- ✓ **Wide Operating Temperature**
- ✓ **Complies with NEMA TS1 & TS2 Environmental requirements for Traffic Control Equipment**



The ***EIRP610-2SFP-T*** is a 10 Port Managed Industrial Gigabit Ethernet Switch. In addition to 8 PoE copper RJ-45 ports, it has 2 RJ-45/SFP Combo ports to accommodate Gigabit Ethernet.

Small Form-factor Pluggable (SFP) Port: The SFP Ports provide flexibility when planning a network. Modules are available in multiple fiber formats. If an SFP module is not inserted, the associated combo port can be used with standard RJ-45 copper.

High-Speed Transmissions: The switch includes a switch controller that automatically senses transmission speed (10/100/1000 Mbps). The RJ-45 interface also auto-detects MDI or MDI-X, eliminating the requirement for a crossover cable. Each port is buffered and supports store-and-forward protocol.

Dual Power Input: To reduce the risk of power failure, the switch has two 48 VDC power inputs. If the power fails, the switch will automatically use the secondary power input. Also, if the power goes out the corresponding P1 or P2 LED will go out and the Fault LED will light. The contacts for the alarm output will also open.

Flexible Mounting: IP30 metal enclosure - DIN or Panel mounted.

Managed: Powerful management functions including SNMP, LACP, VLAN, Port Trunking, Port Mirroring, Redundant Ring Technology, and Spanning Tree/Rapid Spanning Tree Protocol.

Power Over Ethernet (PoE); The eight 10/100 ports are classified as power sourcing equipment (PSE). These ports can be used to power IEEE 802.3af compliant powered devices (PD), eliminating the need for a separate power supply for each device.

Wide Operating Temperature: With an operating temperature of -40 to 75°C (-40 to 167°F), this switch is suitable for use in harsh industrial environments.

Easy Troubleshooting: There are two LED indicators for each port that display the link status and transmission speed. Three LED indicators for power (P1, P2 and Fault) show power status. FWD LEDs on each PoE port indicate when a powered device is connected. These indicators allow you to quickly diagnose and correct problems and ensure your network remains reliable.

B&B Electronics' Elinx™ Brand Ethernet Switches are your number one choice for reliable performance in harsh industrial environments.

Ordering Information

Model Number	Description
EIRP610-2SFP-T	Industrial Gigabit Switch (8 CU, 2 SFP) Power Over Ethernet Sourcing
Accessories	
SFP-100FX-M-2KM-T	SFP 100Base-FX, MM 2KM, LC
SFP-100FX-S-30KM-T	SFP 100Base-FX, SM 20KM, LC
SFP-1000SX-M-550M-T	SFP 1000Base-FX, MM 550M, LC
SFP-1000LX-S-10KM-T	SFP 1000Base-FX, SM 10 KM, LC
SFP-1000LX-S-20KM-T	SFP, 1000Base-FX, SM 20 KM, LC
SDR-240-48 PS	48VDC, 240Wm Din Rail, Metal Enclosure

Specifications

Regulatory	
Approvals	FCC, CE, UL UL File Number: E173795
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6

B&B ELECTRONICS

www.bb-elec.com orders@bb-elec.com support@bb-elec.com

International Office: 707 Dayton Road PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104
European Office: Westlink Commercial Park Oranmore Co. Galway Ireland +353 91 792444 Fax +353 91 792445

B&B ELECTRONICS

PRODUCT INFORMATION

Specifications

IEEE Standards	
IEEE 802.3	802.3. 10Base-T Ethernet
IEEE 802.3u	100Base-TX and 100Base-FX Fast Ethernet
IEEE 802.3ab	1000Base-T
IEEE 802.3z	Gigabit Fiber
IEEE 802.3x	Flow Control and Back Pressure
IEEE 802.3ad	Port trunk with LACP
IEEE 802.3f	Power over Ethernet
IEEE 802.3d	Spanning Tree Protocol
IEEE 802.1w	Rapid Spanning Tree Protocol
IEEE 802.1p	Class of Service
IEEE 802.1Q	VLAN Tag
IEEE 802.1x	User Authentication (RADIUS)
IEEE 802.1ab	LLDP
Network Specifications	
Architecture	Back-plane (Switching Fabric): 5.6Gbps Throughput (Full-dux): 3.3Mpps@64bytes
Transfer Rate	14,880 pps Ethernet Port 148,800 pps Fast Ethernet Port 1,488,000 pps Gigibit Fiber Ethernet
Buffer	1 MB
MAC Table	8K
Flash ROM	4 MB
DRAM	32 MB
Miscl	Broadcast Storm Filtering CSMA/CD
Interface	
RJ-45 Ports	8 x 10/100BaseT, 2 x10/100/1000, Auto MDI/MDI-X
SFP	2 x Mini-GBIC SFP Combo Ports
LED	P1, P2 (Green) to indicate power Fault (Red) to indicate fault Mater (Green) to indicate ring master Link Activity on 10/100 ports (Green) Full Duplex / Collision (Amber) SFP LNK/ACT (Green) 1000T LNK/ACT (Green) 1000M (Green) FWD on PoE ports to indicate if a powered device is connected
PoE	
Ports	1 through 8
Standard	802.3af End Point Alternative A Power Source Equipment (PSE)
Capacity	15.4W per port
Pin Assignment	1 & 2 – VCC(+), 3 & 6 – VCC(-)
Software Features	
Management	SNMP v1, v2C, v3, Web, Telnet, CLI
SNMP MIB	RFC 1215 Trap, RFC1213 MIBII, RFC 1157 SNMP MIB, RFC 1493 Bridge MIB, RFC 2674 VLAN MIB, RFC 1643, RFC 1757, RSTP MIB, Private MIB, LLDP MIB
VLAN	Port Based VLAN IEEE 802.1Q Tag VLAN (256 entries) VLAN ID (1 to 4096), GVRP (256 groups)
Port Trunk w/LACP	4 trunk groups / 4 trunk members
LLDP	Allows the switch to advertise its Identification and capabilities on the LAN
Spanning Tree	802.1d Spanning Tree 802.1w Rapid Spanning Tree
X-Ring	Dual Homing, Ring Coupling, Dual Ring topologies. Recovery time below 20mS
Quality of Service	Determined by port, tag, IPv4 type of service, and IPv4/IPv6 different service
Class of Service	802.1p class of service, 4 priority queues per port
Port Security	Supports 100 static MAC entries and 100 MAC Filter entries
Port Mirror	Supports TX, RX, and both packet
IGMP	IGMP Snooping v1, v2 (256 multi-cast groups and IGMP Query
IP Security	10 IP address entries for permission to access management functions
Login Security	802.1X Authentication / RADIUS
Bandwidth Control	Ingress Packet Filter and Egress Packet Limit. The egress rate control supports all packet types. Limit rates are: 100K to 102400 Kbps (10/100) and 100 K to 256000 Kbps (1000). Ingress packet Filter Type combination rules are Broadcast, Multi-Cast, Unknown Unicast, Broadcast/Multi-cast, Broadcast only, and all packets.
Flow Control	Flow control full-dux, backpressure half-dux
System Log	System Log and remote system log server
SMTP	SMPT SVR and 6 e-mail accounts for alerts
SNMP Trap	Cold Start, Link Down, Link Up, Authorization Fail, PD Disconnect (PoE port event)
DHCP	Client, Server, Port and IP Binding
DNS	DNS client with primary and secondary DNS server
SNTP	SNTP to synchronize system clock
Firmware Update	TFTP update, backup and restore

Power	
Input Voltage	Dual 48 VDC Inputs Reverse Polarity Protection
Power Connection	Removable Terminal Block
Wire Size	12 to 24 AWG
Power Use	9.6 Watts (Without PoE Load) 116 Watts (Full PoE Load)
Fault Output	1 Relay Output – Normally Closed
Environmental	
Op. Temp	- 40 to 75°C (-40 to 167°F)
Storage Temp	- 40 to 85°C (-40 to 185°F)
Op. Humidity	0 to 95%
NEMA TS1 & TS2	Complies with NEMA TS1 & TS2 Environmental requirements for Traffic Control Equipment
Mechanical	
Enclosure	IP30 Metal Enclosure
Mounting	35mm DIN Rail or Panel Mount Attachments
Dimensions	2.86x4.19x6.06 in (7.26x10.64x15.39 cm)