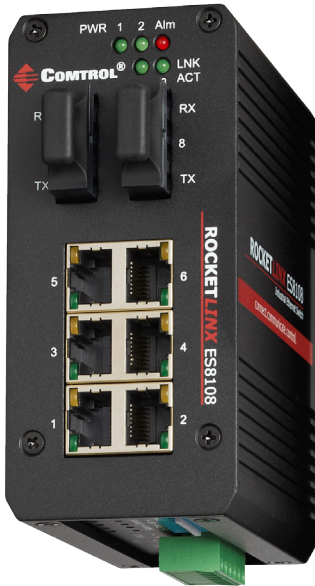




## RocketLinx® ES8108F-XT

Part Number: 32058-6 (Single-Mode) | 32059-3 (Multi-Mode)



### KEY FEATURES AND BENEFITS

- Class I, Division 2 (CID2) certified for potentially hazardous locations
- Six 10/100BASE-TX ports and two 100BASE-FX Single-Mode or Multi-Mode fiber ports
- SC fiber connectors for secure connections
- 2.0Gbps switch fabric with excellent data exchange performance
- QoS for packet forwarding precedence
- Broadcast storm packet filtering
- VLAN tag priority support
- Supports 1.5KV Hi-Pot isolation protection
- Redundant dual power input 10 to 60VDC
- Port and Power Event Alarm
- Compact aluminum case with IP31 grade protection
- DIN rail installation
- RoHS2 compliant under CE
- Extended operating temperature range (-40° to 75°C)

### PRODUCT DESCRIPTION

The RocketLinx ES8108F-XT is Control's 8-port Fast Ethernet industrial switch with six 10/100BASE-TX ports and two 100BASE-FX fiber ports. The ES8108F-XT features a 2.0Gbps Packet Switch engine with packet forwarding and filtering mechanisms to meet industrial communications standards. It provides packet forwarding capabilities to handle 64 to 1522 byte long packet sizes in two priority queues to optimize data forwarding performance. Broadcast storm filtering and flow control functions ensure data delivery free of traffic congestion.

For applications requiring extended distance network coverage or prone to interference, the ES8108F-XT includes two 100Mbps fiber ports with Multi-Mode (2KM) or Single-Mode (30KM) transceivers. For installation in harsh or industrial environments requiring CID2 certification, the ES8108F-XT is equipped with two redundant power inputs, features a rugged IP31 grade housing and operates within a broad -10° to 70°C temperature range.

For ease-of-maintenance, the ES8108F-XT has alarm output relays for port link and power events, which are enabled/disabled with a DIP switch to assist engineers with on-site monitoring.

### RocketLinx Reliability

The ES8108F-XT includes dual power inputs that can operate on 10 to 60VDC. Dual power inputs and built-in reverse power polarity protection are designed as the redundant power system to ensure power continuity. With the 1.5KV Hi-Pot isolation protection, CE/FCC/UL regulatory approvals, and a 5-year warranty, the RocketLinx ES8108F-XT is the ideal switch solution for deployment in harsh and industrial environments.



# ROCKETLINX SPECIFICATIONS

## HARDWARE

<b>Bus Interface Specification</b>	10/100 BASE-TX, 100BASE-FX (supports Single-Mode or Multi-Mode)
<b>Enclosure</b>	IP31 grade compact aluminum metal case, drop-water proof and dustproof
<b>Installation Method</b>	DIN rail
<b>LED Indicators</b>	Power 1, Power 2, port/power alarm, RJ45 port link/activity
<b>Dimensions</b>	4.72" x 2.17" x 4.58" 120 x 55 x 116 mm
<b>Product Weight</b>	1.25 lbs 0.57kg

## TECHNOLOGY

<b>Standard</b>	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX, 100BASE-FX
<b>Switch Technology</b>	2.0Gbps switch fabric, store and forward technology
<b>Flow Control</b>	IEEE 802.3x Flow Control
<b>QoS</b>	IEEE 802.1Q Quality of Service IEEE 802.1p Class of Service

## PERFORMANCE

<b>System Throughput</b>	1.49Mbps
<b>Number of MAC Address with Auto-Learning</b>	2K
<b>Packet Buffer Memory</b>	448Kbits
<b>Transfer Packet Size</b>	64-1522 bytes
<b>Broadcast Storm Control</b>	Default enabled
<b>Broadcast Traffic Threshold</b>	Default enabled
	100Mbps 200 packets/sec. 10Mbps 20 packets/sec.
<b>Class of Service</b>	2 packet forwarding queues
	High Queue (4 ~ 7) Low Queue (0 ~ 3)
<b>Quality of Service</b>	Default enabled, supports VLAN tag priority, IPv4 packet performance
<b>Event Alarm</b>	Both port and power alarm; Enabled by 9-Pin DIP switch

## ELECTRICAL SPECIFICATIONS

<b>Device</b>	DC Input Voltage 10 to 60VDC Current Consumption (+24VDC) 250 mA
<b>Power Consumption (max)</b>	6W
<b>Power Connector</b>	1
<b>Power Connector Type</b>	6-Pin screw terminal block
<b>Power Input Redundancy</b>	Dual redundant independent power inputs
<b>Reverse Polarity Protection</b>	Yes
<b>Power Alarm Relay</b>	Alarm for power failure notification
<b>Relay</b>	0.5A Max. @ 24VDC

## ENVIRONMENTAL SPECIFICATIONS

<b>Air temperature</b>	System On -40° to 75°C System Off -40° to 85°C
<b>Operating Humidity</b>	Non-condensing 0% to 95%
<b>MTBF (Mean Time Between Failures)</b>	45.7 years

## ETHERNET SPECIFICATIONS

<b>Connector Type</b>	RJ45
<b>Number of Ports</b>	6
<b>Ethernet Cable Type</b>	Cat 3, Cat 4, Cat 5, Cat 5e (UTP or STP)
<b>Standard</b>	10/100BASE-TX, auto MDI/MDI-X, auto negotiation
<b>Link Distance</b>	100 Meters
<b>Port Alarm Relay</b>	Alarm relay for port failure notification
<b>Relay</b>	0.5A Max. @ 24VDC

## OPTICAL FIBER SPECIFICATIONS

<b>Fiber Mode</b>	Single-Mode or Multi-Mode
<b>Connector Type</b>	Duplex SC
<b>Number of Ports</b>	2
<b>Standard</b>	IEEE 802.3 100BASE-FX
<b>Fiber Cable Type</b>	Single-Mode 8-10/125um Multi-Mode 50/125um or 62.5/125um
<b>Link Distance (Max)</b>	Single-Mode 30KM Multi-Mode 2KM
<b>Wavelength</b>	1310nm
<b>Transmit Power (Min)</b>	Single-Mode -15dBm Multi-Mode -20dBm
<b>Transmit Power (Max)</b>	Single-Mode -8dBm Multi-Mode -14dBm
<b>Receive Sensitivity (Min)</b>	0dBm
<b>Receive Sensitivity (Max)</b>	Single-Mode -34dBm Multi-Mode -31dBm
<b>Link Budget</b>	Single-Mode 19dBm Multi-Mode 11dBm

## EXPORT INFORMATION

<b>Packaged Shipping Weight</b>	1.60lbs 0.73kg
<b>Package Dimensions</b>	7" x 7.75" x 3.125" 178 x 197 x 79 mm
<b>UPC Code</b>	Single-Mode 7-56727-32058-6 Multi-Mode 7-56727-32059-3
<b>ECCN</b>	5A991
<b>Schedule B Number</b>	8517.62.0050

## REGULATORY APPROVALS

<b>Emissions</b>	IEC61000-6-4 / EN61000-6-4 CISPR22 EN55022 FCC Part 15 Subpart B Class A
<b>Immunity</b>	IEC61000-6-2 / EN61000-6-2: IEC 1000-4-2/EN61000-4-2: ESD IEC 1000-4-3/EN61000-4-3: RF IEC 1000-4-4/EN61000-4-4: Fast Transient IEC 1000-4-5/EN61000-4-5: Surge IEC 1000-4-6/EN61000-4-6: Conducted Disturbance IEC 1000-4-8/EN61000-4-8: Magnetic Field
<b>Safety</b>	Class I Div 2* (Certified for use in Groups A, B, C, D Hazardous Location) IEC 60950/EN60950 (LISTED) CSA C22.2 60950/UL60950 Third Edition
<b>Other</b>	RoHS2 compliant under CE
<b>Regulatory Approvals</b>	



### Warranty Information

Control offers a 30-day satisfaction guarantee and 5-year limited warranty.

### Sales Support

+1.763.957.6000  
sales@comtrol.com

### Technical Support

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