



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.



ROCKETLINK SPECIFICATIONS

HARDWARE

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

TECHNOLOGY

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

PERFORMANCE

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

ELECTRICAL SPECIFICATIONS

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

ENVIRONMENTAL SPECIFICATIONS

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

ETHERNET SPECIFICATIONS

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

OPTICAL FIBER SPECIFICATIONS

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

EXPORT INFORMATION

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

REGULATORY APPROVALS

Emissions	IEC61000-6-4 / EN61000-6-4 CISPR22 EN55022 FCC Part 15 Subpart B Class A
Immunity	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
Safety	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
Other	RoHS2 compliant under CE
Regulatory Approvals	



Warranty Information

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

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