



RocketLinx® ES8108F

Part Number: 32056-2 (Single-Mode) | 32057-9 (Multi-Mode)





KEY FEATURES AND BENEFITS

- 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 (-10° to 70°C)

PRODUCT DESCRIPTION

The RocketLinx ES8108F is Comtrol's 8-port Fast Ethernet industrial switch with six 10/100BASE-TX ports and two 100BASE-FX fiber ports. The ES8108 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 includes two 100Mbps fiber ports with Multi-Mode (2KM) or Single-Mode (30KM) transceivers. For installation in harsh or industrial environments, the ES8108F 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 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 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 is the ideal switch solution for deployment in harsh and industrial environments.

ROCKETLINX 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 4.25" 120 x 55 x 108 mm Product Weight 1.25 lbs 0.54 kg TECHNOLOGY Standard IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX 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 1.49Mpps, 10BASE-T (14,800pps) 100BASE-TX (148,800pps) 64 byte packet size

(146,600pps) 64 byte packet size	
Number of MAC Address with Aut	to-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 precedence Event Alarm

Both port and event alarm; Enabled by 9-Pin DIP switch

ELECTRICAL SPECIFICATIONS

Device DC Input Voltage Current Consumption 10 to 60VDC (+24VDC) 0.5A Power Consumption (max) 6W Power Connector

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	-10° to 70°C
System Off	-40° to 85°C
Operating Humidity	
Non-condensing	0% to 95%
MTBF (Mean Time Between	(Failures)

103.1 vears

ETHERNET SPECIFICATIONS

Connector Type RJ45 Number of Ports

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 Mete Port Alarm Relay Alarm relay for port failure notification Relay

0.5A Max. @ 24VDC

OPTICAL FIBER SPECIFICATIONS

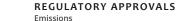
Fiber Mode Single-Mode or Multi-Mode Connector Type Duplex S Number of Ports Standard IEEE 802.3 100BASE-FX Fiber Cable Type Single-Mode 8-10/125um Multi-Mode 50/125um or 62.5/125um Link Distance (Max) Single-Mode 30KM Multi-Mode 2KM Wavelength 1310n Transmit Power (Min) Single-Mode Multi-Mode -15dBM Transmit Power (Max) Single-Mode Multi-Mode -8dBM -14dBM Receive Sensitivity (Min) 0dBM Receive Sensitivity (Max) -34dBM Single-Mode 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 Multi-Mode ECCN 54991 Schedule B Number

8517.62.0050

7-56727-32056-2



European Standard

- Heavy Industrial Equip. Std. IEC/EN61000-6-4 CISPR16-1-2/-2-1/-2-3/22
- FCC Part 15 Subpart B Class A

Immunity

European Standard EN55024

- 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 IEC 60950/EN60950 (LISTED)

CSA C22.2 60950/UL60950 Third Edition

Other RoHS2 compliant under CE

Regulatory Approvals



HEXAGON

+1.309.291.0966 | AutonomouStuff.com | info@AutonomouStuff.com

AUTONOMOUSTURE