

ROCKETLINX ES8108

Industrial Ethernet Switch

HIGHLIGHTS

- 8-port 10/100 TX Industrial Fast Ethernet Switch
- 2.0Gbps Switch Fabric with excellent data exchange performance
- Support 1.5KV Hi-Pot isolation protection
- Redundant dual power input DC 12-48V
- Aluminum case with IP-31 grade protection
- -34° to 70° C operating temperature for extreme environments
- QoS for packet forwarding precedence
- Broadcast storm packet filtering
- Fault Relay Alarm
- DIN-rail/wall-mount installation
- VLAN tag priority and IPv4 support



Part Number
32055-5

Product Description

The RocketLinx ES8108 is Comtrol's 8-port Fast Ethernet industrial switch featuring a 2.0Gbps Packet Switch engine with packet forwarding and filtering mechanisms to meet industrial communications standards. It provides packet forwarding capabilities to handle 64-1552 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 installation in hazardous or industrial environments, the RocketLinx ES8108 is equipped with two redundant power inputs, features wide input voltage ranges, and operates within a broad -34° to 70° C temperature range. For ease-of-maintenance, the RocketLinx ES8108 has one alarm relay for port link and power events to assist engineers with on-site notifications.

RocketLinx Reliability

The RocketLinx ES8108 has dual power inputs, and can also operate on 12V-48V. 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 ES8108 is the ideal switch solution for industrial and hazardous environments.

SPECIFICATIONS

HARDWARE

Bus Interface Specification	10/100 BASE-TX
Enclosure	IP-31 Grade Aluminum Metal Case DIN Rail
Installation Method	DIN Rail
LED Indicators	Power 1, Power 2, Port/Power Alarm, RJ-45 Port Link/Activity
Dimensions	3.9" x 5.8" x 2.6"
Product Weight	1.3 lb

TECHNOLOGY

Standard	10Base-T 100Base-TX
Switch Technology	2.0Gbps Switch Fabric Store and Forward Technology
Flow Control	IEEE802.3x Flow Control
QoS	IEEE802.1Q Quality of Service IEEE802.1p Class of Service

PERFORMANCE

Aggregate system throughput	1.49Mpps
Number of MAC Address	2K
Packet Buffer Memory	448Kbits
Transfer Packet Size	64-1552 Bytes (Long packetforwardingability)
Broadcast Storm Control	Yes. Default enabled
Broadcast Traffic Threshold	200 packets/ sec. @100Mbps; 20 packets/sec. @ 10Mbps Default enabled
Class of Service	Provides 2 packet forwarding queues
Quality of Service	High Queue (4-7) Low Queue (0-3) Default enabled Supports VLAN tag priority and IPv4 packet performance
Event Alarm Relay	Both port and power event alarm; Enabled by 9-PIN DIP-switch

ELECTRICAL SPECIFICATIONS

Device	
DC Input Voltage	12-48 VDC
Current Consumption +24VDC	0.33A
Power Consumption (max)	8W
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 Rating	1A Max. @ 24VDC

ENVIRONMENTAL SPECIFICATIONS

Air temperature	
System On	-34° to 70° C
System Off	-40° to 85° C
Operating Humidity	
Non-condensing	5% to 95%
MTBF (Mean Time Between Failures)	45.7years

ETHERNET SPECIFICATIONS

Connector Type	RJ-45
Number of Ports	8
Ethernet Cable Type	CAT-3, CAT-4, CAT-5, CAT-5e (UTP or STP) 10/100BASE-TX, Auto MDI/MDI-X, Auto negotiation
Standard	100 Meters
Link Distance	Alarm Relay for Port Failure Notification
Relay Rating	1A Max. @ 24VDC

EXPORT INFORMATION

Package Shipping Weight	2.2 lbs
Package Dimensions	11.3" x 5.5" x 9.1"
UPC Code	7-56727-32055-5
ECCN	5A991
Schedule B Number	8517.62.0050

REGULATORY APPROVALS

Emissions	European Standard EN55022 CISPR 22 FCC Part 15 Subpart B Class B limit
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 IEC 1000-4-11/EN61000-4-11: Dips and Voltage Variations
Safety	IEC 60950/EN60950 (LISTED) CSA C22.2 No. 60950/UL60950 Third Edition
Other	European Standard: 2002/95/EC Directive (RoHS)
Regulatory Approvals	RoHS 2002/95/EC CE FCC UL/C-UL



ORDERING INFORMATION

32055-5 RocketLinx ES8108

RECOMMENDED ACCESSORIES

- 32100-2 Power Supply PS1020 Universal
(24V, 20W, Din Rail)
- 32101-9 Power Supply PS1060 Universal
(24V, 60W, Din Rail)
- 32102-6 Power Supply PS1100 Universal

PRODUCT SUPPORT & SERVICE INFORMATION

Warranty Information

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

Sales Support

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