

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
- -25° 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 -25° 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 Drop-Waterproof and Dustproof DIN Rail
- Installation Method
- 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 IEEE802.3 10Base-T IEEE802.3u 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 packet forwarding ability)
- 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 High Queue (4-7) Low Queue (0-3)
- Quality of Service 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 -25° to 70° C System Off -40° to 85° C
- Operating Humidity Non-condensing 5% to 95%
- MTBF (Mean Time Between Failures) 45.7 years

ETHERNET SPECIFICATIONS

- Connector Type RJ-45
- Number of Ports 8
- 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 Rating 1A Max. @ 24VDC

EXPORT INFORMATION

- Packaged Shipping Weight 2.2 lbs
- Package Dimensions 11.3" x 5.5" x 9.1"
- UPC Code 9-56727-32055-5
- 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 (24V, 100W, Din Rail)

PRODUCT SUPPORT & SERVICE INFORMATION

Warranty Information

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

Sales Support

+1.763.494.4100
sales@comtrol.com

Technical Support

+1.763.494.4100
www.comtrol.com/support

Email, FTP, and Web Support

info@comtrol.com
ftp.comtrol.com
www.comtrol.com