

RocketLinx® ES8108

Part Number: 32055-5



KEY FEATURES AND BENEFITS

- 8-Port 10/100BASE-TX Industrial Fast Ethernet Switch
- 2.0Gbps Switch Fabric with excellent data exchange performance
- QoS for packet forwarding precedence
- Broadcast storm packet filtering
- 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
- -25° to 70°C operating temperature for harsh environments
- DIN rail installation
- Meets heavy industrial EMI/EMC regulations
- RoHS2 compliant under CE
- VLAN tag priority support

PRODUCT DESCRIPTION

The RocketLinx ES8108 is Control'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 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 installation in harsh or industrial environments, the ES8108 is equipped with two redundant power inputs, features a rugged IP31 grade housing, and operates within a broad -25° to 70°C temperature range. For ease-of-maintenance, the ES8108 has alarm output relays for port link and power events to assist engineers with on-site monitoring.

RocketLinx Reliability

The RocketLinx ES8108 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 ES8108 is the ideal switch solution for deployment in harsh and industrial environments.

ROCKETLINX SPECIFICATIONS

HARDWARE

Bus Interface Specification

10/100 BASE-TX

Enclosure

IP31 grade compact aluminum metal case
Drop waterproof and dustproof

Installation Method

DIN rail

LED Indicators

Power 1, Power 2, port/power alarm, RJ-45 port link/activity

Dimensions

4.72" x 2.17" x 4.25"
120 x 55 x 108 mm

Product Weight

1.20 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 (Quality of Service)

IEEE 802.1Q Quality of Service
IEEE 802.1p Class of Service

PERFORMANCE

Aggregate System Throughput

1.49Mbps

Number of MAC Address

2K

Packet Buffer Memory

448Kbits

Transfer Packet Size

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 10 to 60VDC
Current Consumption (+24VDC) 0.125A @ 24VDC

Power Consumption (max)

3W

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 -25° to 70°C
System Off -40° to 85°C

Operating Humidity

Non-condensing 0% to 95%

MTBF (Mean Time Between Failures)

146.6 years

ETHERNET SPECIFICATIONS

Connector Type

RJ45

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

0.5A Max. @ 24VDC

EXPORT INFORMATION

Packaged Shipping Weight

1.55lbs
0.70kg

Package Dimensions

7" x 7.75" x 3.125"
178 x 197 x 79 mm

UPC Code

7-56727-32055-5

ECCN

5A991

Schedule B Number

8517.62.0050

REGULATORY APPROVALS

Emissions

Heavy Industrial Equip. Std. IEC/EN61000-6-4
CISPR 16-1-2/-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



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