

## RocketLinx® ES8108-GigE

Part Number: 32085-2



### KEY FEATURES AND BENEFITS

- Eight full Gigabit Ethernet ports
- Rugged IP31 aluminum design for reliable operation in harsh environments
- Port and power event alarm relay
- Supports 12–48VDC power with dual inputs for reliable power delivery
- 9.7K bytes jumbo frame support for efficient large file transmission
- Quality of Service (QoS) for traffic prioritization
- Broadcast storm packet filtering
- RoHS2 compliant under CE
- Wide operating temperature -10° to 70°C

### PRODUCT DESCRIPTION

The RocketLinx ES8108-GigE is an 8-port industrial-grade full Gigabit Ethernet Switch combining the performance of Gigabit Ethernet ports and plug-and-play configuration with a rugged design for deployment in harsh environments. The ES8108-GigE is an ideal solution for industrial applications requiring a reliable, high bandwidth capable switch.

In addition to high speed data transmission, the ES8108-GigE ensures the delivery of critical data via support for QoS and broadcast storm filtering. Further efficiency is realized through the 9.6K byte jumbo frame support, that reduces overhead and increases throughput. Consistent, reliable performance and uninterrupted operation are

just as critical in the industrial environment as the switch's ability to quickly and efficiently handle large volumes of data. The ES8108-GigE features dual power inputs for redundancy and includes a relay alarm for instant notification of data or power failure. Further protecting the switch is its IP31 rated aluminum housing, providing uninterrupted operations in industrial surroundings.

# ROCKETLINX SPECIFICATIONS

## HARDWARE

### Bus Interface Specification

10/100/1000BASE-TX

### Enclosure

IP31 Grade Aluminum Metal Case, Drop-Waterproof and Dustproof

### Installation Method

DIN rail

### LED Indicators

Power 1, Power 2, Port/Power Event Alarm, Port Link/Activity

### Dimensions

4.72" x 2.17" x 4.25"  
11.99 x 5.51 x 10.8 cm

### Product Weight

1.16 lb  
0.53 kg

## TECHNOLOGY

### Standards

IEEE 802.3	10BASE-T
IEEE 802.3u	100BASE-TX
IEEE 802.3ab	1000BASE-TX
IEEE 802.3x Flow Control	
IEEE 802.1Q QoS (Quality of Service)	
IEEE 802.1p Class of Service	

## PERFORMANCE

### Aggregate System Throughput

1.49Mbps

### Number of MAC Address

4K

### Packet Buffer Memory

192Kbits

### Transfer Packet Size

14,880 pps	10BASE-T
148,800 pps	Fast Ethernet
1,488,100 pps	Gigabit Ethernet

### Jumbo Frame

9,720 Bytes (Gigabit only)

### Broadcast Storm Control

Yes, Default Enabled

### Broadcast Traffic Threshold

Default Enabled

200 Packets/sec. @100Mbps

20 packets/sec. @ 10Mbps

128Mbps @ 1000Mbps

12.8Mbps @ 100Mbps

1.28Mbps @ 10Mbps

### Class of Service

Provides 2 packet forwarding queues

High Queue (4-7)

Low Queue (0-3)

### Quality of Service

Default Enabled, Compliance with IEEE802.1p class of service with Tag Based Priority, Each port support 4 priority queues with 8(Higher): 4(High): 2(Low): 1 (Lowest) scheduling, Tag Priority ID as following: Higher (6,7), High (4,5), Low (0,3), Lowest (1,2)

### Event Alarm Relay

Both Port and Power Event Alarm; Enabled by 9-Pin DIP switch

## ELECTRICAL SPECIFICATIONS

### Device

DC Input Voltage (24VDC) 12 to 48VDC

Current Consumption (Max) 250mA @ 24VDC

Power Consumption (Max) 6W @ 24VDC

### 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 Port and Power Failure Notification

### Relay Rating

1A Max. @ 24VDC

## ENVIRONMENTAL SPECIFICATIONS

### Air temperature

System On -10o to 70o C

System Off -40o to 85o C

### Operating Humidity

Non-Condensing 0% to 95%

### MTBF

(Mean time between failure) 29 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

10/100/1000BASE-TX, Auto MDI/MDIX,

Auto-Negotiation

### Link Distance

100 Meters

## EXPORT INFORMATION

### Packaged Shipping Weight

1.9 lbs

0.86 kg

### Package Dimensions

7.5" x 6.9" x 3.25"

19.1 x 17.5 x 8.3 cm

### ECCN

5A991

### UPC Code

7-56727-32085-2

### Schedule B Number

8517.62.0050

## REGULATORY APPROVALS

### Emissions

European Standard EN55022

FCC Class A

### Immunity

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

### Other

RoHS2 compliant under CE

### Regulatory Approvals

