

RocketLinx® ES8105-GigE

Part Number: 32075-3



KEY FEATURES AND BENEFITS

- Five full Gigabit Ethernet ports
- Rugged IP31 aluminum design for reliable operation in harsh environments
- Port and power event alarm relay
- Support 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 ES8105-GigE is a 5-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 ES8105-GigE is an ideal solution for industrial applications requiring a reliable, high bandwidth capable switch.

In addition to high speed data transmission, the ES8105-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 ES8105-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
1.2Mbps @ 10Mbps

Class of Service

Provides 2 packet forwarding queues
High Queue (4-7)
Low Queue (0-3)

Quality of Service

Default Enabled, Compliance with IEEE 802.1p 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 6-Pin DIP switch

ELECTRICAL SPECIFICATIONS

Device

DC Input Voltage	(24VDC) 12 to 48VDC
Current Consumption (Max)	330mA @ 24VDC
Power Consumption (Max)	8W @ 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

29 Years

ETHERNET SPECIFICATIONS

Connector Type

RJ45

Number of Ports

5

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

1.70 lbs
0.77 kg

Package Dimensions

7.5" x 6.9" x 3.25"
19.1 x 18.5 x 8.3 cm

ECCN

5A991

UPC Code

7-56727-32075-3

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



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