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.

connect. communicate. control.

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(Low
  est) 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 -10° to 70° C
  System Off -40° to 85° C
Operating Humidity
  Non-Condensing   0% to 95%
MTBF (Mean time between failures)   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" x 7.75" x 3.13"
  17.78 x 19.69 x 7.94 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
  European Standard: 2002/95/EC Directive (RoHS2)

Regulatory Approvals

CE   c UL us LISTED

RECOMMENDED PRODUCTS ::

32100-2 Power Supply PS1020 Universal
        (24V, 24W, DIN Rail)
32103-3 Power Supply PS1040 Universal
        (24V, 40W, DIN Rail)
32101-9 Power Supply PS1060 Universal
        (24V, 60W, DIN Rail)
32102-6 Power Supply PS1100 Universal
        (24V, 100W, DIN Rail)

COMTROL®