



RocketLinx® ES7106-VB

Part Number: 32047-0 Voltage Boost



KEY FEATURES AND BENEFITS

- Industrial PoE unmanaged switch with four 10/100BASE-TX PoE ports and two Gigabit uplink ports
- IEEE 802.3af compliant PoE with total output power budget of 65W (15.4W maximum on each port)
- Voltage boost technology supporting 12/24VDC power sources for transportation, security and industrial applications
- QoS support for optimizing video and VoIP stream
- Extended operating temperature range (-25°C to +60°C)
- Alarm relay for failure and event notification
- Industrial-grade aluminum IP30 housing
- DIN rail or wall mount installation

PoE SWITCH

PRODUCT DESCRIPTION

The RocketLinx ES7106-VB is an IEEE 802.3af compliant PoE switch designed for connecting a wide range of industrial PoE equipment such as IP surveillance cameras, wireless access points, point-of-sale systems, and other devices utilizing 12/24V vehicle power sources or 24V standard industrial power.

The RocketLinx ES7106-VB is equipped with four 10/100BASE-TX PoE injector ports, with each port delivering power up to 15.4W, and two 10/100/1000BASE-TX (Gigabit) Ethernet uplink ports for transferring data to the network. The ES7106-VB supports QoS, which ensures high quality video traffic transmission by adjusting the data transfer priority.

The ES7106-VB features convenient wiring with a standard 4-pin industrial terminal block for power input and a fault relay alarm contact output. Additionally, each Ethernet port has a Port Link Alarm, which can be configured to automatically trigger on connection issues, warning administrators of abnormal operating conditions and ensuring quick resolution to network issues.

In addition to advanced PoE and networking capabilities, the ES7106-VB is designed for industrial applications and deployment in harsh conditions. With an IP30 rigid aluminum housing and extended operating temperature range, consistent operation is ensured in environments such as mass transit vehicles, factories, and outdoor settings.



ROCKETLINX SPECIFICATIONS

HARDWARE

Ethernet Specification

10/100/1000BASE-TX

Enclosure

IP31 grade metal case, drop-waterproof and dustproof

Installation Method

DIN rail or Wall Mount

LED Indicators

PoE status, power, port link/activity, Full-Duplex/collision, alarm, Gigabit speed

Dimensions

4.5" x 2.6" x 5.9"

12.07 x 6.6 x 14.99 cm

Product Weight

2.2 lbs

1 kg

TECHNOLOGY

Standards

IEEE 802.3af Power Over Ethernet (PoE)

IEEE 802.3 10BASE-T

IEEE 802.3u 100BASE-T

IEEE 802.3ab 1000BASE-T

IEEE 802.1p Class of Service

Flow Control

IEEE 802.3x flow control and back-pressure

PERFORMANCE

Switch Technology

32Gbps switch fabric

Store and forward switch technology

System Throughput

14,880pps for 10M Ethernet

148,800pps for 100M Ethernet

1,488,000pps for 1000M Ethernet

Number of MAC Address

8K

Packet Buffer Memory

1Mbits

Transfer Packet Size

64 – 1522 bytes (Including tagged and untagged frames)

POE FEATURES

Standards

IEEE 802.3af Power Over Ethernet (PoE)

Number of PoE Injector Ports

4

Maximum Output Power/PoE Port (Max.)

15.4W

PoE Voltage Output

48V @ 60W

Total PoE Power Budget

60W

PSE Type

Alternative B

ETHERNET INTERFACE SPECIFICATION

Connector Type

RJ45

Number of Ports

4 x 10/100BASE-TX (PoE Ports)

2 x 10/100/1000BASE-TX (Uplink Ports)

Auto-MD/MDIX

Yes

Auto-Negotiation

Yes

PoE Port Pin Assignment

RX (1, 2), TX (3, 6), V+ (4, 5), V- (7, 8)

Link Distance

100 Meters

Port Alarm Relay

Failure notification for each port (Enabled/disabled via DIP switch)

Relay Rating

1A Max. @ 24VDC

ELECTRICAL SPECIFICATIONS

Device

DC Input Voltage 12-24VDC

Power Consumption without PD Load 8.3W @ 24VDC

7.2W @ 12VDC

Power Consumption (with PD Load) 75-Watts

Power Connector

1

Power Connector Type

(1) 4-Pin screw terminal block

ENVIRONMENTAL SPECIFICATIONS

Air temperature

System On -25 to 70° C

System Off -40 to 80° C

Operating Humidity (non-condensing)

0% to 95%

Storage Humidity (non-condensing)

0% to 95%

MTBF (Mean Time Between Failures)

22.83 Years

EXPORT INFORMATION

Packaged Shipping Weight

3.1 lbs

1.41 kg

Package Dimensions

11.3" x 9.1" x 5.5"

28.7 x 23.11 x 13.97 cm

UPC Code

7-56727-32047-0

ECCN

5A991

Schedule B Number

8517.62.0050

REGULATORY APPROVALS

Emissions

Canadian EMC Requirements

ICES-003

European Standard EN55022

CISPR 22

FCC Part 15 Subpart B

Class A limit

Immunity

European Standard EN55024:

IEC61000-4-2/EN61000-4-2: ESD

IEC61000-4-3/EN61000-4-3: RF

IEC61000-4-4/EN61000-4-4: Fast Transient/ Burst

IEC61000-4-5/EN61000-4-5: Surge

IEC61000-4-6/EN61000-4-6: Conducted Disturbance

IEC61000-4-8/EN61000-4-8: Magnetic Field

IEC61000-4-11/EN61000-4-11: Voltage Dips and Voltage

Variations

Other

European Standard: 2002/95/EC Directive (RoHS2)

Regulatory Approvals



Warranty Information

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

Sales Support

+1.763.957.6000
sales@comtrol.com

Technical Support

+1.763.957.6000
www.comtrol.com/support

Email, FTP, and Web Support

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