



## RocketLinx® ES7110-VB

Part Number: 32049-4 Voltage Boost



### KEY FEATURES AND BENEFITS

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

PoE SWITCH

### PRODUCT DESCRIPTION

The RocketLinx ES7110-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 ES7110-VB is equipped with eight 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 ES7110-VB supports QoS, which ensures high quality video traffic transmission by adjusting the data transfer priority.

The ES7110-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 ES7110-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

IP30 Grade Metal Case  
Drop-waterproof and dustproof

### Installation Method

DIN rail/wall mount

### LED Indicators

Power, PoE Status, Port Link/Activity, Full-duplex, Alarm,

Gigabit

speed

### Dimensions

4.75" x 2.6" x 5.9"  
12.07 x 6.6 x 14.99 cm  
2.2 lbs  
1 kg

### Product Weight

## TECHNOLOGY

### Standards

IEEE 802.3af Power over Ethernet (PoE)  
IEEE 802.3 10BASE-T  
IEEE 802.3u 100BASE-TX  
IEEE 802.3ab 1000BASE-TX  
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 8

Maximum Output Power/PoE Port 15.4W

### Standard PoE Voltage Output

IEEE 802.3af compliant  
44-48VDC

### Total PoE Power Budget

65W

### PSE Type

Alternative B

## ETHERNET INTERFACE SPECIFICATION

### Connector Type

RJ45

### Number of Ports

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

### Auto-MD/MDI-X

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) 11W @ 24VDC  
9.8 W @ 12VDC  
Power Consumption  
(With PD Load) 79W

### Number of Power Connectors

1

### Power Connector Type

(1) 4-Pin Screw Terminal Block

## ENVIRONMENTAL SPECIFICATIONS

### Air Temperature

System On -25° to 70° C  
System Off -40° to 85° C

### Mean Time Between Failures

22.83 years

### Operating Humidity

(non-condensing) 0% to 95%

### Storage Humidity

(non-condensing) 0% to 95%

## 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

### ECCN

### Schedule B Number

7-56727-32049-4

5A991

8517.62.0050

## REGULATORY APPROVALS

### Emissions

FCC Part 15 Subpart B  
Class A limit  
Canadian EMC Requirements  
ICES-003

European Standard EN55022

CISPR 22

### 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: DIPS and Voltage Variations

### Other

RoHS2 compliant under CE

### 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

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