



## 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.

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