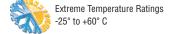# ROCKET*LINX* ES7110-VB

Industrial PoE Voltage Boost Switch

HIGHLIGHTS

- 10-Port Industrial PoE unmanaged switch

- Voltage boost technology supporting 12/24VDC power sources for transportation and industrial applications

- Eight 10/100BASE-TX PoE injector ports and two 10/100/1000BASE-TX uplink ports

- Plug-and-play rugged PoE switch

- IEEE 802.3af compliant PoE with a total output power budget of 65W (15.4W maximum on each port)

- Two Gigabit uplink ports supporting high bandwidth applications such as IP surveillance

- QoS support for optimizing video and VoIP stream

- Extended operating temperature range for installation in the widest variety of environments (-25° to +60°C)

- Alarm Relay for failure and event notification

- Industrial-grade aluminum IP30 housing

- DIN rail/wall-mount installation

- UL listed

Part Number
32049-4

Extreme Temperature Ratings
-25° to +60° C

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.

COMTROL®

SPECIFICATIONS

HARDWARE

Network Interface
10/100BASE-TX IEEE 802.3af Compliant PoE
10/100/1000BASE-TX Gigabit Uplink
Installation Method
DIN Rail or Wall Mount
Enclosure
IP30 Grade Metal Case
LED Indicators
Power, PoE Status, Ethernet Link/Activity and Link Speed, Alarm
Relay Alarm
Dry Relay Output
Faliure Notification for Each Port (Enable/Disable with DIP Switch)
1A Max. @ 24VDC

Dimensions	4.75" x 2.6" x 5.9"
Product Weight	2.2 lbs

ETHERNET SPECIFICATIONS

Cable Types
CAT-5, CAT5e, CAT6 (UTP or STP)

Connector Type	RJ45
Link Distance	100 Meters
Number of Ports	10

Ports Type
(8) 10/100BASE-TX IEEE 802.3af Complaint PoE
(2) 10/100/1000BASE-TX Uplink Auto MDI/MDIX, Auto Negotiation
Standards
IEEE 802.1p Class of Service
IEEE 802.3af Power over Ethernet
IEEE 802.3 10BASE-T
IEEE 802.3u 100BASE-TX
IEEE 802.3ab 1000BASE-TX
IEEE 802.3x Flow Control and Back-Pressure
Transfer Packet Size
64 bytes to 1522 bytes (with Tagged and Untagged Frames)

POWER OVER ETHERNET SPECIFICATIONS

Maximum Output Power/PoE Port	15.4W
Number of PoE Injector Ports	8
PoE Pin Assignment	RX (1,2)
	TX (3,6)
	V+ (4,5)
	V- (7,8)
PoE Mode	Alternative B

Standard
IEEE 802.3af Power over Ethernet (PoE)
Standard PoE Voltage Output
Yes, IEEE 802.3af Compliant 48VDC

Total PoE Power Budget	65W

ELECTRICAL SPECIFICATIONS

Device

DC Input Voltage	12-24VDC
Power Consumption (Without PD Load)	30W
Power Consumption (With PD Load)	95W
Number of Power Connectors	1

Power Connector Type
4-Pin Screw Terminal Block

Reverse Polarity Protection	Yes
Relay Output	1A (Max) @ 24VDC

NETWORK PERFORMANCE

Back Pressure
IEEE 802.3x 1000Mbps Half-Duplex Only
Class of Service (CoS)
IEEE 802.1p 4/Port Priority Queues
Flow Control Pause Frame
IEEE 802.3x 10/100/1000Mbps Full-Duplex

Packet Buffer Memory	1Mbit

Switch Technology
32Gbps Switch Fabric
Store/Forward Switch Technology
8K MAC Address

ENVIRONMENTAL SPECIFICATIONS

Air Temperature

System On	-25° to 60° C
System Off	-40° to 80° C
MTBF (Mean Time Between Faliures)	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
Package Dimensions	11.3" x 9.1" x 5.5"
UPC Code	7-56727-32049-4
ECCN	5A991
Schedule B Number	8517.62.0050

REGULATORY APPROVALS

Emissions
FCC Part 15 Subpart B
Class A limit
Canadian EMC Requirements
ICES-003
European Standard EN55022
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
Safety
IEC 60950/EN60950 (LISTED)
CSA C22.2 No. 60950/UL60950 Third Edition
Other
European Standard: 2002/95/EC Directive (RoHS)

Regulatory Approvals

ORDERING INFORMATION

32049-4 RocketLinx ES7110-VB

PRODUCT SUPPORT & SERVICE INFORMATION

Warranty Information
Comtrol offers a 30-day satisfaction guarantee and 5-year limited warranty.

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