RocketLinx® ES7106-VB

Part Number: 32047-0 *Voltage Boost*

KEY FEATURES AND BENEFITS::

- 6-Port industrial PoE unmanaged switch
- Voltage boost technology supporting 12/24VDC power sources for transporation, security and industrial applications
- Four 10/100BASE-TX PoE ports and two 10/100/1000BASE-TX uplink ports
- Plug-and-play rugged PoE switch
- IEEE 802.3af compliant PoE with total output power budget of 65W (15.4W maximum on each port)
- Two Gigabit uplink ports supporting high bandwidth application such as IP surveillance
- 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 installation
- RoHS2 compliant under CE
- UL listed

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.

PoE
POWER OVER
ETHERNET

connect. communicate. control.

HARDWARE

Ethernet Specification
10/100/1000BASE-TX

Enclosure
IP31 grade metal case, drop-waterproof and dustproof

Installation Method   DIN rail

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

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
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   30-Watts
Power Consumption (with PD Load)   95-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 85° 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

CE

RECOMMENDED PRODUCTS ::

32102-6   PS1100, 24V, 100W, DIN rail
1200054   Power over Ethernet Splitter
(24VDC, 24 Watts)

COMTROL®