

ROCKETLINX ES7105

Industrial PoE Switch

HIGHLIGHTS

- Perfect solution for powering IP camera and wireless access points
- Four 10/100BASE-TX ports with embedded PoE injector and one 10/100BASE-TX uplink port
- 15.4W full power delivery per port
- Relay alarm for port failure
- Terminal block power input for industrial applications
- Standard DC power jack input for external power adapter
- End-point PoE architecture
- DIN-rail/wall-mounting and desktop installation options
- Rugged aluminum enclosure with IP31 grade protection
- Wide operating temperature range (-20° to 70° C)
- Plug and play compact switch



Part Number
32045-6

Product Description

Comtrol's RocketLinx ES7105 is an IEEE 802.3af compliant PoE switch designed for a wide range of industrial PoE applications such as IP surveillance cameras, wireless access point, VoIP phone set, POS system, industrial sensors, controllers and security card readers, where a power source is not conveniently located.

The RocketLinx ES7105 is equipped with 4 PoE injector switch ports, with each port delivering power up to 15.4 watts, and one 10/100BASE-TX uplink port transferring data to the central network. The RocketLinx ES7105 is compliant with the IEEE 802.3af Power over Ethernet (PoE) standard for delivering power and data to remote network devices.

The ES7105 features convenient wiring with a standard industrial terminal block for the power and relay alarm contact output to alert of any port break or power failure. It also provides a DC jack for a traditional AC/DC power adapter.

The IP31 rigid aluminum housing and wide operating temperature range ensure reliable operation in places such as mass transit vehicles or outdoor settings.



SPECIFICATIONS

HARDWARE

Bus Interface Specification	10/100BASE-TX
Enclosure	IP31 Grade Aluminum Metal Case Drop-Waterproof and Dustproof
Installation Method	Panel Mount or DIN Rail Mount
LED Indicators	Power, Power 1, Power 2 Port Link/Activity Alarm, PoE Status
Dimensions	5.6" x 1.45" x 4.4"
Product Weight	0.90 lb

TECHNOLOGY

Standards	IEEE 802.3 10BASE-TX IEEE 802.3u 100BASE-TX IEEE 802.3af Power Over Ethernet(PoE)
Flow Control	IEEE 802.3x Flow Control and Back-Pressure

PERFORMANCE

Switch Technology	3.2Gbps wire-speed non-blocking Switch Fabric Store and Forward Switch Technology
Aggregate System Throughput	1.49Mbps
Number of MAC Address	1K
Packet Buffer Memory	512Kbits
Transfer Packet Size	64 – 1522 Bytes

POE FEATURES

Standards	IEEE 802.3af Power Over Ethernet (PoE)
Number of PoE Injector Ports	4
Maximum Output Power/ PoE Port (Max.)	15.4W @ VIN = 48VDC (IEEE 802.3af mode) Yes. IEEE 802.3af compliant 44-57VDC
Standard PoE Voltage Output	

ETHERNET INTERFACE SPECIFICATION

Connector Type	RJ45
Number of Ports	4 x 10/100BASE-TX (PoE Ports) 1 x 10/100BASE-TX (Uplink Port)
Auto-MD/MDIX	Yes
Auto-Negotiation	Yes
PoE Port Pin Assignment	TX (3, 6) RX (1, 2) V+ (4,5) V- (7,8) Alternate B
PoE Mode	Alternate B
Ethernet Cable Type	10BASE-T – Cat 3/4/5/5e/6 100BASE-TX – Cat 5/5e/6
Link Distance	100 Meters
Port Alarm Relay	Yes. Failure notification for each port (Enabled/disabled via DIP Switch)
Relay Rating	1A Max. @ 24VDC

ELECTRICAL SPECIFICATIONS

Device	
DC Input Voltage	48VDC
Power Consumption without PD Load	7-Watts
Power Consumption (with PD Load)	70-Watts
Power Connector	2
Power Connector Type	(1) 6-Pin Screw Terminal Block (1) DC Jack
Power Input Redundancy	Dual Redundant Independent Power Inputs
Reverse Polarity Protection	Yes
Power Alarm Relay	Alarm for power failure notification (Enabled/disabled via DIP Switch)
Relay Rating	1A Max. @ 24VDC

ENVIRONMENTAL SPECIFICATIONS

Air temperature	
System On	-20 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)	59.11 Years

EXPORT INFORMATION

Packaged Shipping Weight	1.3 lbs
Package Dimensions	8.8" x 2.5" x 7.7"
UPC Code	7-56727-32045-6
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: IEC 1000-4-2/EN61000-4-2: ESD IEC 1000-4-3/EN61000-4-3: RF IEC 1000-4-4/EN61000-4-4: Fast Transient/ Burst IEC 1000-4-5/EN61000-4-5: Surge IEC 1000-4-6/EN61000-4-6: Conducted Disturbance IEC 1000-4-6/EN61000-4-8: Magnetic Field

Safety	IEC 60950/EN60950 (LISTED) CSA C22.2 No. 60950/UL60950 Third Edition
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Other	European Standard: 2002/95/EC Directive (RoHS)
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Regulatory Approvals



ORDERING INFORMATION

32045-6 RocketLinx ES7105

RECOMMENDED ACCESSORIES

1200048 48VDC External Power Adapter, Bare Wires (48VDC, 120W, 2-Wire)

PRODUCT SUPPORT & SERVICE INFORMATION

Warranty Information

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

Sales Support

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