COMTROL
Pepperl+Fuchs

RocketLinx® ES7105

Part Number: 32045-6

PoE
POWER OVER
ETHERNET

KEY FEATURES AND BENEFITS

- 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 mount and desktop installation options
- Rugged aluminum enclosure with IP31 grade protection
- Wide operating temperature range (-20° to 70°C)
- RoHS2 compliant under CE
- Plug and play compact switch

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.

Your automation, our passion.

ROCKETLINX 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"
14.22 x 3.68 x 11.18 cm

Product Weight
0.90 lbs
0.41 kg

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
1.49Mpps

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)

Total PoE Power Budget
61.6-Watts

Standard PoE Voltage Output
Yes. IEEE 802.3af compliant   44-57VDC

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)

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
0.59 kg

Package Dimensions
8.6" x 2.5" x 7.6"
21.84 x 6.35 x 19.30 cm

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 1000-4-8/EN61000-4-8: Magnetic Field

Safety
IEC 60950/EN60950 (LISTED)
CSA C22.2 No. 60950/UL60950 Third Edition

Other
European Standard: 2002/95/EC Directive (RoHS2)

Regulatory Approvals

CE c(UL)us LISTED

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