

RocketLinx® ES8105F

Part Number: 32026-5 (Single-Mode) | 32027-2 (Multi-Mode)



KEY FEATURES AND BENEFITS

- Compact industrial Fast Ethernet fiber switch
- Four - 10/100BASE-TX ports and one Fast Ethernet (100BASE-FX) fiber port
- Models supporting Multi-Mode (2 KM) or Single-Mode (30KM)
- 3.2Gbps Switch Fabric
- AC or DC power input (18 to 32VDC or 18 to 27VAC)
- DIN rail or wall mount installation
- -10° to 60°C extended operating temperature for harsh environments
- Aluminum metal case with IP31 grade protection for drip-proof and dustproof protection
- Supports 1.5KV Hi-Pot isolation protection
- Alarm relay output for port event notifications
- Plug-and-play
- RoHS2 compliant under CE
- UL listed

PRODUCT DESCRIPTION

The RocketLinx ES8105F is a 4-port Fast Ethernet industrial switch with one 100BASE-FX fiber port. The fiber uplink feature increases the transmission distance to 2KM with the Multi-Mode model (32026-5) or 30KM with the Single-Mode model (32027-2).

The ES8105F is housed in a slim industrial enclosure to save rail or panel space in compact system designs. For installation in hazardous or industrial environments, the ES8105F operates within an extended temperature range (-10° to 60°C) and provides IP31 protection to guard against dust and water.

The ES8105F is an unmanaged switch that requires no user setup and immediately starts operating as soon as power

is applied for true “plug-and-play” operation. The ES8105F supports 18 to 27VAC or 18 to 32VDC power inputs and provides built-in reverse power polarity protection.

For ease-of-maintenance, the ES8105F has one alarm relay that is controlled by a DIP switch to assist engineers with on-site notifications in the case of link-down events.

RocketLinx Reliability

With the 1.5KV Hi-Pot isolation protection, CE/FCC/UL regulatory approvals, high MTBF, a 5-year warranty, and rugged aluminum design, the ES8105F is the ideal switch solution for industrial and hazardous environments.

ROCKETLIX SPECIFICATIONS

HARDWARE

Network Interface

10/100 BASE-TX
100BASE-FX (Single-Mode or Multi-Mode)

Enclosure

IP31 Grade Aluminum Metal Case
Drop-Waterproof and Dustproof

Installation Method

DIN rail

LED Indicators

Power, Alarm, 10Mbps Link/Activity, 100Mbps Link/Activity,
Fiber Port Link

Dimensions

3.9" x 1.2" x 4.4"
99 x 30.5 x 112 mm

Product Weight

0.65 lbs
0.295 kg

TECHNOLOGY

Standard

IEEE 802.3 10BASE-T
IEEE 802.3u 100BASE-TX
IEEE 802.3u 100BASE-FX

Switch Technology

3.2Gbps switch fabric
Store and forward technology

Aggregate System Throughput

1.49Mbps

Flow Control

IEEE 802.3x Flow Control

ETHERNET SPECIFICATION

Connector Type

RJ45

Number of Ports

4

Ethernet Cable Type

Cat 3, Cat 4, Cat 5, Cat 5e (UTP or STP)

Link Distance

100 Meters

Port Type

10/100BASE-TX
Auto MDI/MDIX, Auto-Negotiation

Port Event Alarm

Yes
DIP switch enabled

Relay Rating

1A Max. @ 24VDC

OPTICAL FIBER SPECIFICATION

Connector Type

Duplex SC

Number of Ports

1

Standard

IEEE 802.3 100BASE-FX

Fiber Cable Type

Single-Mode
8-10/125um
Multi-Mode
50-125um or 62.5/125um

Link Distance (Max)

Single-Mode 30KM
Multi-Mode 2KM

Wavelength

1310nm

Transmit Power (Min)

Single-Mode -15dBm
Multi-Mode -20dBm

Transmit Power (Max)

Single-Mode -8dBm
Multi-Mode -14dBm

Receive Sensitivity (Min)

0dBm

Receive Sensitivity (Max)

Single-Mode -34dBm
Multi-Mode -31dBm

Link Budget

Single-Mode 19dBm
Multi-Mode 11dBm

ELECTRICAL SPECIFICATIONS

Device

Power Input Type AC or DC
DC Input Voltage 18 to 32VDC
Current Consumption +24VDC 170mA
AC Input Voltage 18 to 27VAC, 47 to 63Hz

Power Consumption (Max)

4W

Number of Power Connectors

1

Power Connector Type

4-Pin Screw Terminal Block

Reverse Polarity Protection

Yes

ENVIRONMENTAL SPECIFICATIONS

Air temperature

System On -10° to +60° C
System Off -40° to +85° C

Operating Humidity

Non-Condensing 0% to 95%

Storage Humidity

0% to 95%

MTBF (Mean Time Between Failures)

81.45 years

EXPORT INFORMATION

Packaged Shipping Weight

0.90 lbs
0.41 kg

Package Dimensions

6.0" x 2.5" x 5.0"
15.24 x 6.35 x 12.7 cm

UPC Code

Single-Mode 7-56727-32026-5
Multi-Mode 7-56727-32027-2

ECEN

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
IEC 1000-4-11/EN61000-4-11: DIPS and Voltage Variations

Safety

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

Other

RoHS2 compliant under CE

Regulatory Approvals



Warranty Information

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

Sales Support

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Technical Support

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