

ROCKETLINX ES8105F

Industrial Ethernet Fiber Switch

HIGHLIGHTS

- 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
- -25° to 70° C extended operating temperature for extreme 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
- UL listed



Part Number
Single-Mode: 32026-5
Multi-Mode: 32027-2

Product Description

The RocketLinx ES8105 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 RocketLinx ES8105 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 RocketLinx ES8105 operates within an extended temperature range (-25° to 70°C) and provides IP31 protection to guard against dust and water.

The ES8105 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 RocketLinx ES8105 supports 18 to 27VAC or 18 to 32VDC power inputs and provides built-in reverse power polarity protection.

For ease-of-maintenance, the RocketLinx ES8105 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 RocketLinx ES8105 is the ideal switch solution for industrial and hazardous environments.



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 or Wall Mount

LED Indicators

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

- Dimensions** 4.275" x 1.2" x 4.4"
- Product Weight** 10.4 oz

ETHERNET SPECIFICATIONS

- Connector Type** RJ45
- Number of Ports** 4
- Ethernet Cable Type** CAT-3, CAT-4, CAT-5, (UTP or STP)

- Link Distance** 100 Meters

Port Type

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

Switch Technology

- 3.2Gbps Switch Fabric with Store and Forward Technology

- Aggregate System Throughput** 1.49Mbps

Standards

- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX and 100BASE-FX
- IEEE 802.3x Flow Control and Back Pressure

OPTICAL FIBER SPECIFICATIONS

- 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 200mA
- 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

Relay Output

1A Max@ 24VDC

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

Package Dimensions

6.0" x 2.5" x 5.0"

UPC Code

- Single-Mode 9-56727-32026-5
- Multi-Mode 9-56727-32027-2

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
- IEC 1000-4-6/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

- 32026-5 RocketLinX ES8105F (Single-Mode)
- 32027-2 RocketLinX ES8105F (Multi-Mode)

RECOMMENDED ACCESSORIES

- 32100-2 Power Supply PS1020 Universal (24V, 20W, DIN rail)
- 32101-9 Power Supply PS1060 Universal (24V, 60W, DIN rail)
- 32102-6 Power Supply PS1100 Universal (24V, 100W, DIN rail)
- 1200038 External Power Adapter, Bare Wires (24VDC, 24W, 3-Wire)

PRODUCT SUPPORT & SERVICE INFORMATION

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

Sales Support
+1.763.494.4100
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