RocketLinx™ ES8105F

Part Number: 32026-5 (Single-Mode) | 32037-2 (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
- 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.

connect. communicate. control.

ROCKETLINX 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"
	9.91 x 3.05 x 3.56 cm
Product Weight	10.4 oz
	294.84 g

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

Regulatory Approvals

CE c(UL)us LISTED FC

RECOMMENDED PRODUCTS ::

32100-2	PS 1020, 24VDC, 24W, DIN rail
32103-3	PS1040, 24VDC, 40W, DIN rail
32101-9	PS1060, 24VDC, 60W, DIN rail
32102-6	PS1100, 24VDC, 100W, DIN rail
32112-5	PULS ML60.2 Power Supply
1200038	24VDC External Power Adapter

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