COMTROL
Pepperl+Fuchs

RocketLinx® ES8105F-XT

Part Number: 32028-9 (Single-Mode) | 32029-6 (Multi-Mode)

HAZ LOC Class I Div 2

PORTVISION DX
MANAGEMENT SOFTWARE

KEY FEATURES AND BENEFITS

- Class I, Division 2 (CID2) certified for potentially hazardous locations
- 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 installation
- -40° to 75°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-XT 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 or 30KM with the Single-Mode model.

The ES8105F-XT is housed in a slim industrial enclosure to save rail or panel space in compact system designs. For installation in hazardous or industrial environments requiring CID2 certification, the ES8105F-XT operates within an extended temperature range (-40° to 75°C) and provides IP31 protection to guard against flammable gases and vapor.

The ES8105F-XT 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-XT supports 18 to 27VAC or 18 to 32VDC power inputs and provides built-in reverse power polarity protection.

For ease-of-maintenance, the ES8105F-XT 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-XT is the ideal switch solution for industrial and hazardous environments.

HARDWARE

Bus Interface Specification
10/100 BASE-TX, 100BASE-FX (supports Single-Mode or Multi-Mode)
Enclosure
IP31 grade compact aluminum metal case, drop-water proof and dustproof
Installation Method
DIN rail
LED Indicators
Power, Alarm, 10Mbps link/activity, 100Mbps link/activity, Fiber port link/activity
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
Flow Control
IEEE 802.3x Flow Control
Aggregate System Throughput
1.49Mbps

ETHERNET SPECIFICATIONS

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/MDI-X, Auto-negotiation
Port Event Alarm
Yes; DIP switch enabled
Relay Rating
1A Max. @ 24VDC

OPTICAL FIBER SPECIFICATIONS

Fiber Mode
Single-Mode or Multi-Mode
Wavelength
1310nm
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

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	18-32VDC
Current Consumption	(+24VDC) 170mA
AC Input Voltage	18-27VAC, 47-63Hz

Power Consumption (max)
4W
Power Connector
1
Power Connector Type
4-Pin screw terminal block
Reverse Polarity Protection
Yes

ENVIRONMENTAL SPECIFICATIONS

Air Temperature

System On	-40° to 75°C
System Off	-40° to 85°C

Operating Humidity

Non-condensing	0% to 95%

MTBF (Mean Time Between Failures)
TBD

EXPORT INFORMATION

Packaged Shipping Weight
0.90 lbs
0.41 kg
Package Dimensions
6" x 2.5" x 5.0"
152 x 63.5 x 127 mm

UPC Code	
Single-Mode	7-56727-32028-9
Multi-Mode	7-56727-32029-6

ECCN
5A991
Schedule B Number
8517.62.0050

REGULATORY APPROVALS

Emissions
European Standard
Heavy Industrial Equip. Std. IEC/EN61000-6-4
CISPR16-1-2/-2-1/-2-3/22
FCC Part 15 Subpart B
Class A
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
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
UL 508 Class I Div 2*
IEC 60950/EN60950 (LISTED)
CSA C22.2 60950/UL60950 Third Edition
Other
RoHS2 compliant under CE
Regulatory Approvals

CE c(UL)us LISTED FC