![COMTROL Pepperl+Fuchs logo]

RocketLinx® ES8108-XT

Part Number: 32054-8

KEY FEATURES AND BENEFITS

- Class I, Division 2 (CID2) certified for potentially hazardous locations
- 8-Port 10/100BASE-TX Industrial Fast Ethernet Switch
- 2.0Gbps Switch Fabric with excellent data exchange performance
- QoS for packet forwarding precedence
- Broadcast storm packet filtering
- Supports 1.5KV Hi-Pot isolation protection
- Redundant dual power input 10 to 60VDC
- Port and Power Event Alarm
- Compact aluminum case with IP31 grade protection
- -40° to 75°C operating temperature for harsh environments
- DIN rail installation
- Meets heavy industrial EMI/EMC regulations
- RoHS2 compliant under CE
- VLAN tag priority support

![HAZ LOC Class I Div 2 badge] ![PORTVISION DX MANAGEMENT SOFTWARE badge]

PRODUCT DESCRIPTION

The RocketLinx ES8108-XT is Comtrol's 8-port Fast Ethernet industrial switch featuring a 2.0Gbps Packet Switch engine with packet forwarding and filtering mechanisms to meet industrial communications standards. It provides packet forwarding capabilities to handle 64 to 1522 byte long packet sizes in two priority queues to optimize data forwarding performance. Broadcast storm filtering and flow control functions ensure data delivery free of traffic congestion.

For installation in harsh or industrial environments requiring CID2 certification, the ES8108-XT is equipped with two redundant power inputs, features a rugged IP31 grade housing, and operates within a broad -40° to 75°C temperature range. For ease-of-maintenance, the ES8108-XT has alarm output relays for port link and power events to assist engineers with on-site monitoring.

RocketLinx Reliability

The RocketLinx ES8108-XT includes dual power inputs that can operate on 10 to 60VDC. Dual power inputs and built-in reverse power polarity protection are designed as the redundant power system to ensure power continuity. With the 1.5KV Hi-Pot isolation protection, CE/FCC/UL regulatory approvals, and a 5-year warranty, the RocketLinx ES8108-XT is the ideal switch solution for deployment in harsh and industrial environments.

ROCKETLINX SPECIFICATIONS

HARDWARE

Bus Interface Specification
10/100 BASE-TX
Enclosure
IP31 grade compact aluminum metal case
Drop waterproof and dustproof
Installation Method
DIN rail
LED Indicators
Power 1, Power 2, port/power alarm, RJ-45 port link/activity
Dimensions
4.25" x 2.17" x 4.72"
108 x 55 x 120 mm
Product Weight
1.20 lbs
0.54 kg

TECHNOLOGY

Standard
IEEE 802.3 10BASE-T
IEEE 802.3u 100BASE-TX
Switch Technology
2.0Gbps switch fabric, store and forward technology
Flow Control
IEEE 802.3x Flow Control
QoS (Quality of Service)
IEEE 802.1Q Quality of Service
IEEE 802.1p Class of Service

PERFORMANCE

Aggregate System Throughput
1.49Mbps
Number of MAC Address
2K
Packet Buffer Memory
448Kbits
Transfer Packet Size
64 - 1522 bytes
Broadcast Storm Control
Default enabled
Broadcast Traffic Threshold
Default enabled

100Mbps	200 packets/sec.
10Mbps	20 packets/sec.

Class of Service
2 packet forwarding @ queues

High Queue	(4 ~ 7)
Low Queue	(0 ~ 3)

Quality of Service
Default enabled, supports VLAN tag priority, IPv4 packet performance
Event Alarm
Both port and event alarm; Enabled by 9-pin DIP switch

ELECTRICAL SPECIFICATIONS

Device

DC Input Voltage	10 to 60VDC
Current Consumption (+24VDC)	220 mA

Power Consumption (max)
5.3W
Power Connector
1
Power Connector Type
6-pin screw terminal block
Power Input Redundancy
Dual redundant independent power inputs
Reverse Polarity Protection
Yes
Power Alarm Relay
Alarm for power failure notification
Relay
0.5A Max. @ 24VDC

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)
45.7 years

ETHERNET SPECIFICATIONS

Connector Type
RJ45
Number of Ports
8
Ethernet Cable Type
Cat 3, Cat 4, Cat 5, Cat 5e (UTP or STP)
Standard
10/100BASE-TX, auto MDI/MDI-X, auto negotiation
Link Distance
100 Meters
Port Alarm Relay
Alarm relay for port failure notification
Relay
0.5A Max. @ 24VDC

EXPORT INFORMATION

Packaged Shipping Weight
1.55lbs
0.70kg
Package Dimensions
7" x 7.75" x 3.125"
178 x 197 x 79 mm
UPC Code
7-56727-32054-8
ECCN
5A991
Schedule B Number
8517.62.0050

REGULATORY APPROVALS

Emissions
IEC61000-6-4 / EN61000-6-4
CISPR22
EN55022
FCC Part 15 Subpart B
Class A
Immunity
IEC61000-6-2 / EN61000-6-2:
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
Safety
UL Class I Div 2* (Certified for use in Groups A, B, C, D Hazardous Location)
IEC 60950/EN60950 (LISTED)
CSA C22.2 60950/UL60950 Third Edition
Other
RoHS2 compliant under CE
Regulatory Approvals

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