Enhancing reliability.
Driving flexibility.
Simplifying integration.

RocketLinx® Ethernet Switches

RocketLinx
A Pepperl+Fuchs Brand

Your automation, our passion.

PEPPERL+FUCHS

RocketLinx

Perfect for Mission-Critical Applications

Engineered for reliability. Optimized for network performance. Based on the latest standards for cybersecurity. As a crucial node in your industrial network, RocketLinx Ethernet switches ensure stable and fast data transmission for your mission-critical industrial networking applications.

Constantly Growing Portfolio for Network Applications

The RocketLinx ICRL line of Ethernet switches are designed to meet the requirements of mission-critical industrial networking applications. The portfolio consists of managed and unmanaged industrial Gigabit and Fast Ethernet switches to fit your specific needs. Unmanaged models offer a cost-efficient, industrial-grade solution for easy plug-and-play network expansion at the field level. Managed Ethernet switches enable expansion of Ethernet connectivity from field to enterprise where advanced management, security, network redundancy, and mission-critical reliability are required.

Engineered for Reliability

RocketLinx switches are designed with rugged metal housings for thermal conductivity and excellent heat dissipation. The slim, space-saving designs allow for easy integration within control cabinets and panels, while compliance with industry standards including Class I, Div 2, CE, FCC, and UL508 ensure safety and reliability. Each switch has a configurable alarm relay for port event notifications. These features improve reliability and support deployment in a wide range of harsh and industrial environments.

Continuous Data Transfer from the Sensor to the Cloud

Whether it is classic binary sensors or serial, RFID, or IO-Link sensor data, the complete portfolio from Pepperl+Fuchs offers all the components required for industrial communication from the sensor/actuator level to the cloud. This is paving the way for future-oriented applications in the context of Industry 4.0. Decades of experience and sound technical know-how in industrial communication and industrial Ethernet make Pepperl+Fuchs the right system provider for application-specific hardware and software solutions.

Controller-based applications

PLC

Cloud-based applications

Cloud

Edge gateways

Mobile devices

Connectivity

Infrastructure components for industrial communication

Ethernet switches

| Serial gateways (DeviceMaster®) | IO-Link masters | Ethernet IO modules | AS-Interface gateways | RFID control interfaces | Direct connection of Ethernet sensors |

Sensors

| Serial devices | IO-Link devices | Binary sensors | AS-Interface modules | RFID read/write heads | Ethernet sensors |

Continually Growing Portfolio with a Variety of Features
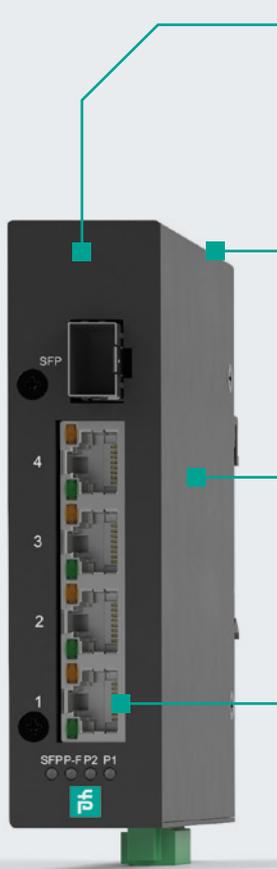
Enclosure
- 5-, 8-, 12-, and 20-port models available
- Metal housing
- DIN rail mounting

Certificates (Vary by Model)
- Class I, Division 2
- CE
- FCC
- UL 508
- NEMA TS2

Environment
- Wide operating temperature ranges
- High MTBF

Connection
- RJ45 copper ports
- SFP fiber ports
- Fast Ethernet
- Gigabit

Unmanaged Ethernet switch

Whether for the cost-efficient expansion of Ethernet channels at the field level or as an intelligent node in your network, with RocketLinx, Pepperl+Fuchs offers a comprehensive and continually growing portfolio of managed and unmanaged Ethernet switches.

Unmanaged Ethernet Switches: Simple Expansion of Ethernet Ports at the Field Level

RocketLinx unmanaged switches offer a cost-effective, plug-and-play solution for easily connecting Ethernet-enabled devices at the field level where reliability is critical. Small-form-factor designs enable installation in panels, cabinets, and small spaces. Rugged metal housings, extended operating temperature ranges, and Gigabit ports ensure stable connections and fast data transmission.

Managed Ethernet Switches: Operational Integrity and Performance

Incorporated VLAN support for network segmentation enhances security and optimizes performance while redundant power inputs offer guaranteed uptime in the event of a power supply failure. With Rapid Spanning Tree and ring protocols, loops are eliminated and network redundancy is established. In addition, a built-in alarm relay provides on-site notifications for port link and power events. These are only a few of the security and performance features the managed RocketLinx Ethernet switches provide.
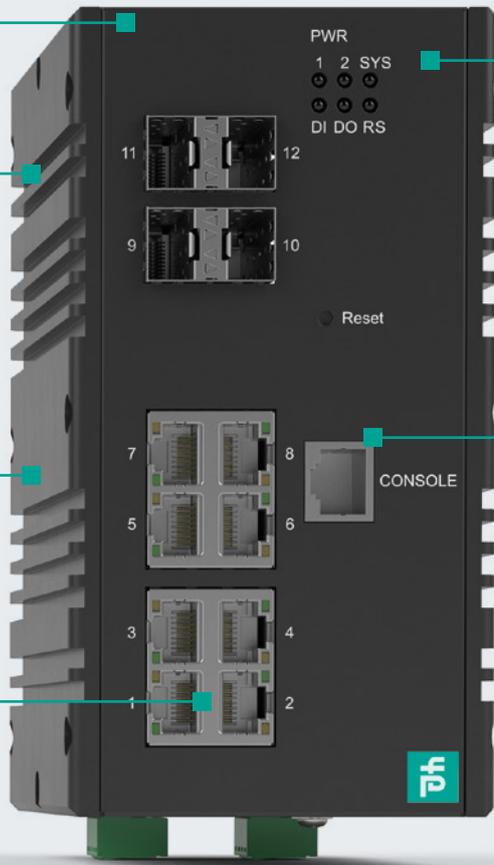
Security and Network Performance

- Managed Ethernet switches with the latest security and Layer 2 performance standards
- Unmanaged models featuring broadcast storm packet filtering
- Alarm relays for customizable event notifications

Management Interfaces

- Web UI
- Command line interface
- PortVision® DX

Additional devices available at
pepperl-fuchs.com/pf-rocketlinx

Managed Ethernet switch

Technical Data	ICRL-U-5RJ45-DIN	ICRL-U-8RJ45-DIN	ICRL-U-5RJ45-G-DIN	ICRL-U-4RJ45/SFP-G-DIN	ICRL-M-8RJ45/4SFP-G-DIN	ICRL-M-16RJ45/4CP-G-DIN
Type	Unmanaged	Unmanaged	Unmanaged	Unmanaged	Managed	Managed
Fast Ethernet ports	5	8				
Gigabit ports			5	4	8	16
Gigabit SFP fiber ports				1	4	
Gigabit/fiber combo ports						4
Housing material	Aluminum	Aluminum	Steel	Steel	Aluminum	Aluminum
Operating temperature	−40°C to +75°C	−40°C to +75°C	−40°C to +75°C	−40°C to +75°C	−40°C to +75°C	−40°C to +75°C
Certificates	C1D2	C1D2	EN50121-4	EN50121-4	NEMA TS2, EN50121-4	NEMA TS2, EN50121-4

# Maximum Flexibility in Configuration and Diagnostics

Configurable hardware offers adaptability to changing connectivity requirements through a combination of RJ45 copper and pluggable SFP fiber ports. Convenient commissioning and device monitoring thanks to the unique PortVision® DX software. Flexibility at its best.

SFP Fiber Transceiver for Full Flexibility

The RocketLinx Ethernet switches combine cost-efficient RJ45 copper connections for short distances and SFP fiber ports for electronically noisy areas or long distances up to 120 km. Depending on the requirements the connections can be individually tailored to the network application. Even if the configuration has to be adjusted due to changes in network infrastructure, hot-swappable SFPs allow for individual transceivers to be replaced rather than the entire switch. This means real flexibility and cost efficiency in terms of a long-term investment.
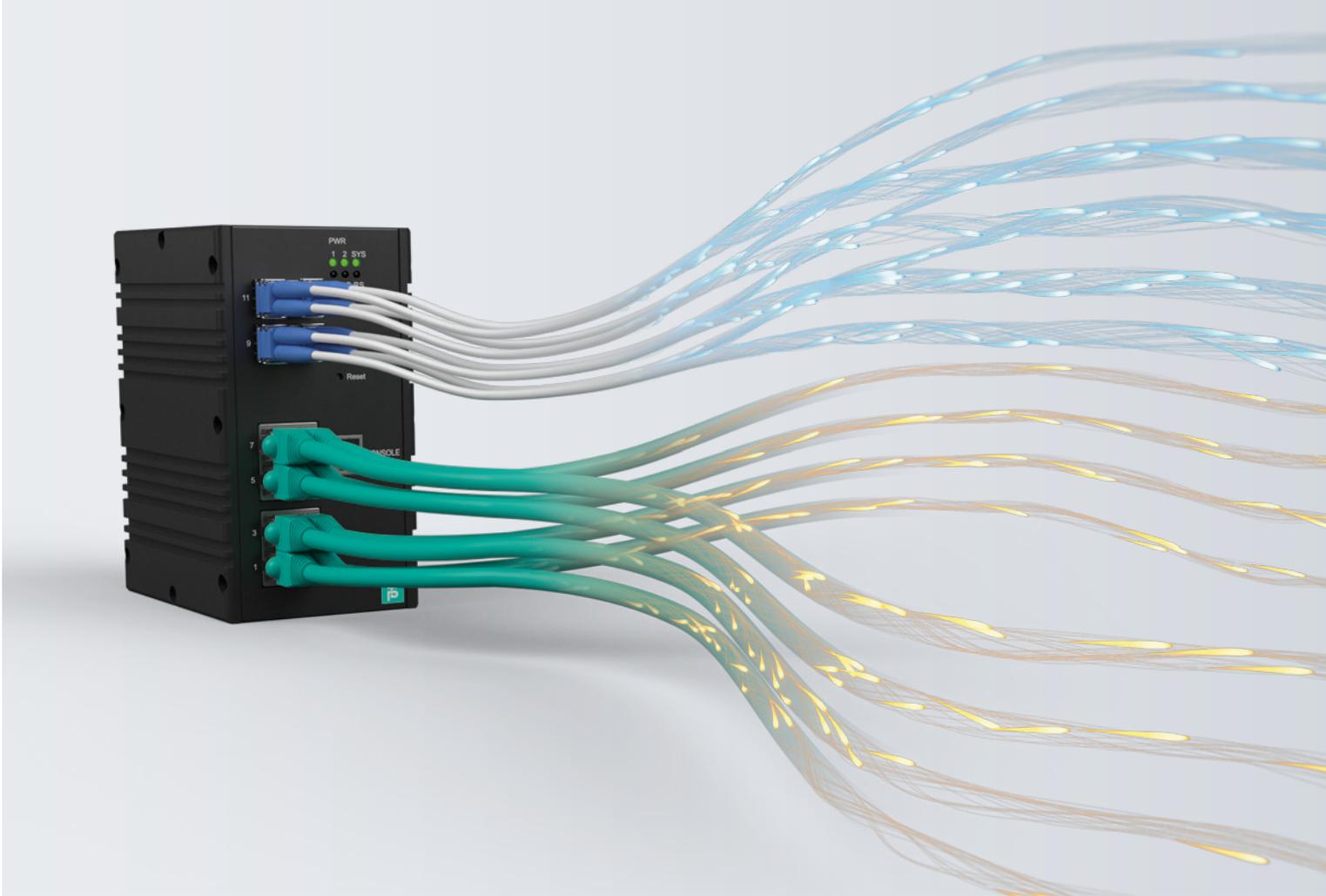
Easy Network Integration and Management

The Ethernet switches can be configured and managed via command line interface (CLI), via the integrated web server, or by using the PortVision DX software. The user can flexibly decide which of these convenient and powerful configuration and management tools should be used.

PortVision DX is free software allowing you to configure network settings of all Pepperl+Fuchs managed Ethernet switches within the network at once. In addition to simplified configuration, this software also provides a valuable diagnostic tool enabling near real-time monitoring of the status of connected switches and facilitating easy firmware updates from within a single intuitive user interface.
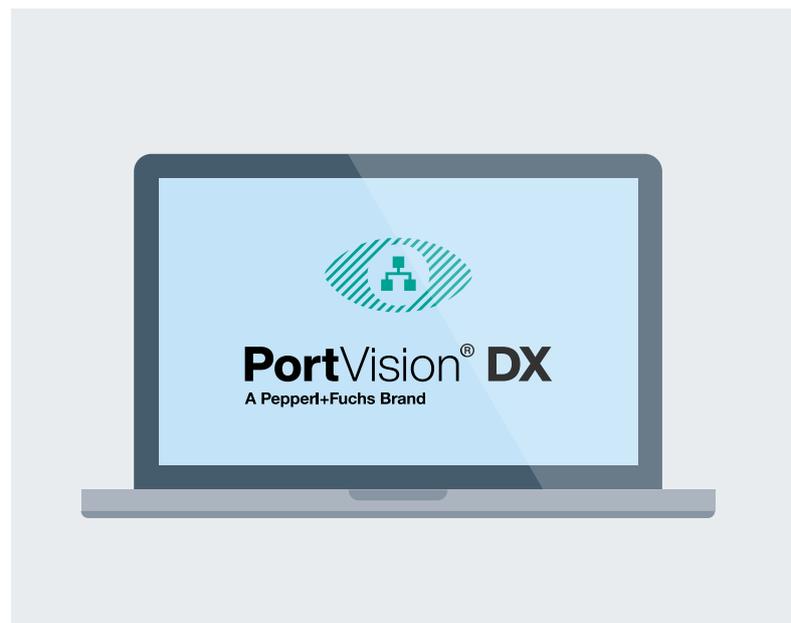
Your automation, our passion.

Explosion Protection

- Intrinsic Safety Barriers
- Signal Conditioners
- FieldConnex® Fieldbus Infrastructure
- Remote I/O Systems
- Electrical Explosion Protection Equipment
- Purge and Pressurization Systems
- HMI Systems
- Mobile Computing and Communications
- HART Interface Solutions
- Surge Protection
- Wireless Solutions
- Level Measurement

Industrial Sensors

- Proximity Sensors
- Photoelectric Sensors
- Industrial Vision
- Ultrasonic Sensors
- Rotary Encoders
- Positioning Systems
- Inclination and Acceleration Sensors
- Industrial Ethernet
- AS-Interface
- IO-Link
- Identification Systems
- Displays and Signal Processing
- Connectivity

Pepperl+Fuchs Quality
Download our latest policy here:

www.pepperl-fuchs.com/quality

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