Industrial Ethernet Communications

Components for the Entire Communication Chain

Line Card

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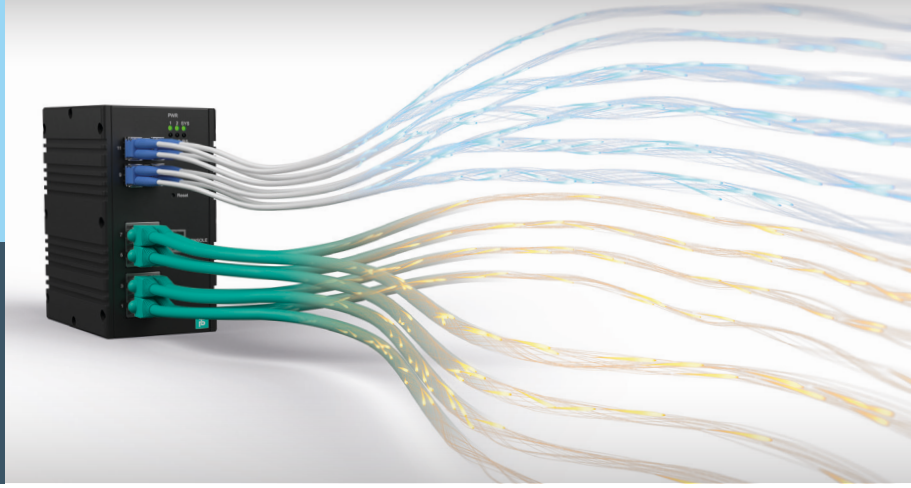
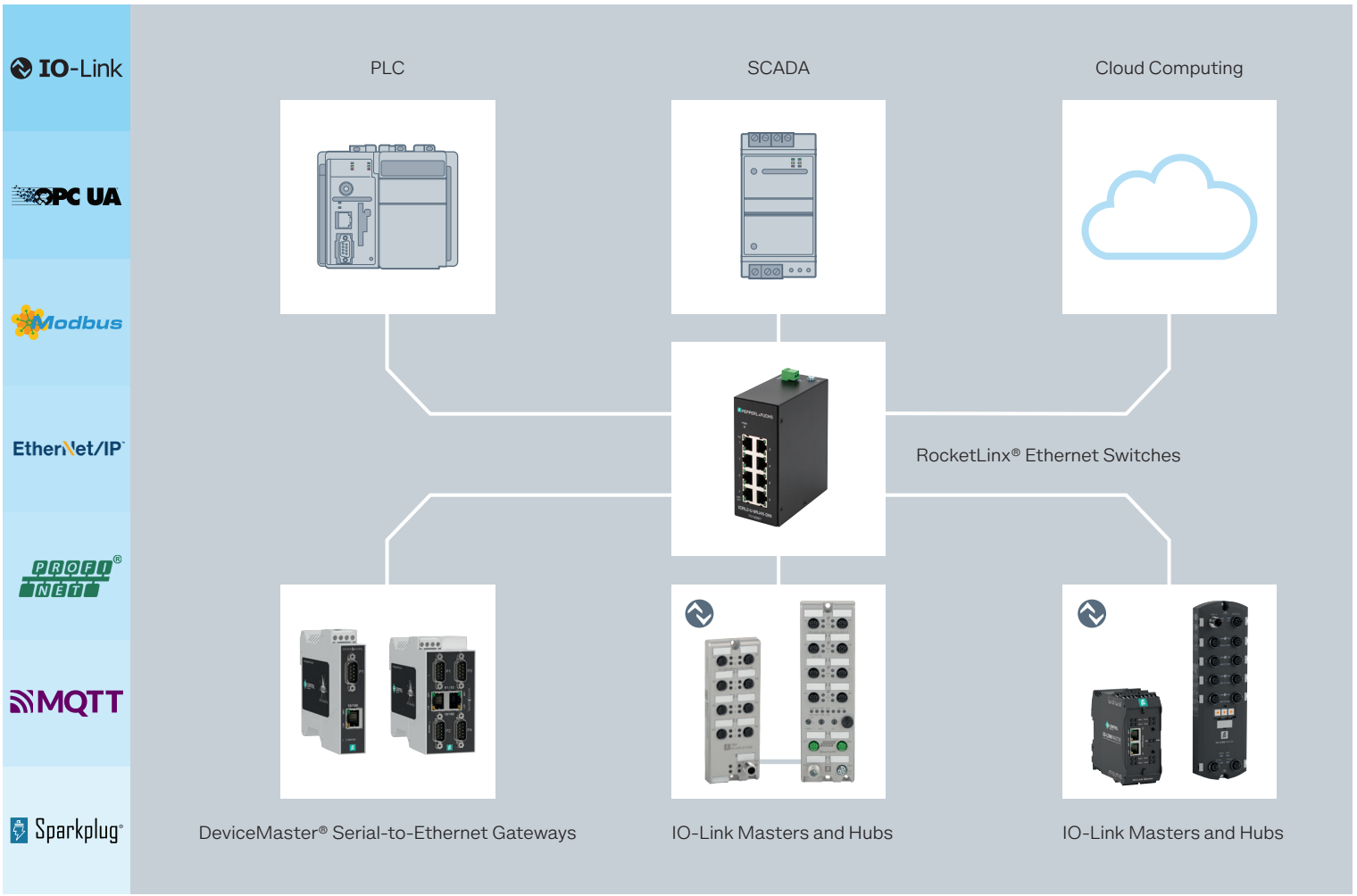


Complete Industrial Networking Infrastructure

From the sensor to the PLC or cloud, Pepperl+Fuchs offers every element of the industrial communication chain: Serial-to-Ethernet gateways that connect legacy devices, IO-Link masters and hubs, and industry-leading Ethernet switches.

The IO-Link master and DeviceMaster models from Pepperl+Fuchs feature the unique MultiLink™ functionality. This makes connecting field devices to IIoT and cloud-based applications a simple task, as simultaneous communication is supported to both the PLC via Industrial Ethernet protocols and IIoT applications via MQTT, OPC UA, or Modbus TCP. Stand-alone IIoT connections are also supported for applications that do not require a PLC.



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Industrial Ethernet Communications

RocketLinx® Ethernet Switches—Industry-Leading Rugged Networking Solutions

RocketLinx managed and unmanaged Ethernet switches are made for demanding applications, including those that require extended operating temperatures, small form-factor pluggable (SFP) connectivity, and reliable data transfer. Switches are available with up to 20 ports, and models with Power over Ethernet (PoE), Gigabit interfaces, M12 connectors, and Small Form-factor Pluggable (SFP) sockets are also available.

ICE11 Ethernet IO Modules / IO-Link Masters for Traditional PLCs

ICE11 Ethernet IO-Link masters with high-current L-coded M12 connectors offer Class A IO-Link ports plus digital input and output connections. Multiprotocol functionality allows users to DIP-switch select between EtherNet/IP, PROFINET, EtherCAT, Modbus TCP, or CC-Link communication. The cast-metal modules with IP65/IP67/IP69K degree of protection are designed to withstand harsh industrial environments.

ICE2 and ICE3 IO-Link Masters for PLCs, SCADA, and IIoT/Cloud Systems

ICE2 and ICE3 IO-Link masters with MultiLink technology can provide simultaneous data access via EtherNet/IP, PROFINET, Modbus TCP, MQTT, and OPC UA to multiple controllers. Two housing styles—IP67 with Class A and B versions and M12 ports, and IP20 with DIN-rail mount and screw terminal or push-in connections. An integrated web server and IODD interpreter enable complete configuration of the fieldbus connection and attached IO-Link devices via a web browser. The modules retain configuration parameters and enable stand-alone use without a higher-level PLC for nondeterministic applications.

MultiLink™ Technology—Simultaneous Data Transfer to PLCs and the Cloud

A pioneer in the technology, Pepperl+Fuchs introduced the first IO-Link masters enhanced with MultiLink to the market. This technology makes it possible to control time-critical processes with a PLC while simultaneously allowing cloud and SCADA systems to access all sensor data via MQTT or OPC UA. Experienced PLC programmers and database experts can take maximum advantage of these products by delivering sensor data from the field to the exact location where it is needed. Non-PLC condition monitoring applications are also possible by using OPC UA or MQTT to transmit data to a HMI, SCADA, or cloud system.

ICA I/O Hubs—Easily Integrate Digital I/O into the Communication Channel

ICA hubs with digital inputs/outputs and IO-Link interface are used with ICE11, ICE2, and ICE3 IO-Link masters. Connected to an IO-Link master, hubs enable the addition of digital I/Os to IO-Link systems for integration of IO-Link and standard digital sensors. The cast-metal devices with IP65/IP67/IP69K degree of protection are designed to withstand harsh industrial environments.

DeviceMaster® Serial-to-Ethernet Gateways—Simple Connectivity for Serial and Ethernet Products

DeviceMaster gateways enable devices with serial or TCP/IP interfaces to be connected to infrastructures via EtherNet/IP, Modbus TCP, MQTT, Sparkplug B, Modbus RTU/ASCII, and PROFINET infrastructures. This greatly simplifies networking of barcode scanners, RFID readers, weight scales, sensors, and other devices that were not originally designed for direct PLC connectivity. DeviceMaster gateways are available in 1- to 4-port models featuring DIN rail and panel mount form factors. Higher port density requirements are supported by 8-, 16-, and 32-port models for serial and TCP/IP applications, with panel and rack mount form factors.

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