

Single-mode ring network industrial switch solution



Overview

This solution builds a basic two-layer network architecture designed to decrease complexity, enhance security, and increase efficiency and operating uptime for your industrial network. The built-in ICP DAS proprietary Cyber-Ring technology detects and recovers from a fiber or copper link failure within approximately 300 s – for the majority of applications a seamless process. Modbus/TCP, Modbus/RTU and OPC supported. X-Ring Ethernet Industrial Ring Technology is supplied on the Case Communications range of Industrial Ethernet switches and provides an improvement over Spanning Tree and Rapid Spanning Tree. Our switches can address connectivity needs in a variety of vertical markets. DLR is an EtherNet/IP™ protocol that is defined by the Open DeviceNet® Vendors' Association (ODVA).



Article Content

Feb 17, 2026

IFGS-620TF Industrial Ring Ethernet Switch | Planet

In response to the growing demand for IIoT (Industrial Internet of Things) infrastructure, the IFGS-620TF is designed for easy deployment of industrial

Nov 18, 2025

Single-mode network switch, Single-mode ethernet

Find your single-mode network switch easily amongst the 140 products from the leading brands (PILZ, Emerson, Lantech, ...) on DirectIndustry, the industry

Aug 04, 2025

Real-time Redundant Ring Switch Industrial Ethernet Switch

The NS-205/NS-208/NSM-108 series of industrial Ethernet switches are entry-level industrial 8/5-port Ethernet switches that support IEEE802.3/802.3u/802.3x with 10/100M, full/half-duplex, MDI/MDIX

Apr 22, 2026

8-Port Managed Ethernet Switch / Redundant-Ring

The MSW-1208 is a rugged, fan-less, industrial-grade, managed 10/100M Ethernet switch (layer 2) to fiber optic media converter that supports daisy-chain or

Apr 28, 2026

Industrial Lan switch how to group ring network

September 19, 2024 Industrial Lan switch how to group ring network In the industrial Internet of Things, the Industrial Lan Switch group ring network is an important network architecture method that can

Nov 17, 2025

Microsoft Word

Introduction Unlike office Ethernet "star" networks, industrial control applications tend to favour "ring" topology. The "ring" simplifies cabling and provides inherent redundancy. The basic building block for

Jun 02, 2026

Redundant Ring Technology for Industrial Ethernet Applications

In closing, we highlight the key features of industrial Ethernet switches, and show how to select the redundant ring switch that provides your industrial application with the best performance.

Sep 23, 2025

Industrial 8-Port Managed Ethernet Switch / Redundant-Ring Fiber

The unit can be configured as a self-healing redundant-ring network with a fast recovery time of 15ms, and it also features redundant 12 to 48 VDC power inputs, as well as relay alarm output for instant

May 31, 2026

How Industrial Switches Build Industrial Ring Networks

Scalability is another crucial aspect of industrial switches in ring networks. As industrial operations expand, the network infrastructure must be able to accommodate additional devices and

May 23, 2026

Step-by-Step Configuration Guide for Industrial Lte Router Ring

Industrial Lte router ring redundancy technology was born precisely to solve such "life-or-death" challenges—it enables networks to self-heal like "blood vessels," completing fault switching within

Nov 01, 2025

ETFA2010_Enhanced_Ring_Redundancy_Protocol_CR

A modern Industrial Ethernet switch is more or less expected to support a media redundancy protocol that supports the physical topology of a ring. While the performance concerning failover time and

Mar 14, 2026

Fiber Optic Ring Redundancy Design for Industrial Ethernet Switches

5. Redundancy Design as the "Lifeline" of Industrial Networks Fiber optic ring redundancy design represents not just a technical choice but an industrial pursuit of "determinacy"—ensuring real-time,

Aug 01, 2025

How to Configure ERPS on Industrial Network Switch

Ring Network Protocol for Industrial Switch Generally, redundant links are used on an Ethernet switching network such as a ring network to

Sep 14, 2025

Industrial Ethernet Switch

ORing offers a comprehensive portfolio of rugged industrial Ethernet switches, from cost-effective unmanaged and PoE models to advanced Layer 2/3 managed switches enabling precise control. Our

May 13, 2026

Industrial Ring Networks | ERPS | Antaira Technologies

The Ethernet Ring Protection Switching (ERPS) protocol is a powerful technology and service that can be used on industrial switches to ensure high network availability and prevent network downtime.

Sep 19, 2025

Industrial Automation Ring Network Solution

Efficient Industrial Automation Network This solution builds a basic two-layer network architecture designed to decrease complexity, enhance security, and

Sep 16, 2025

Industrial Media Converter

ORing industrial media converters interconnect Ethernet and fiber networks, delivering long-distance, interference-proof data transmission for industrial and outdoor environments.

Jun 17, 2026

Fiber Optic Ring Redundancy Design for Industrial Ethernet Switches

The workshop deploys two independent fiber optic ring networks (Ring A and Ring B), each containing eight USR-ISG-8G industrial switches interconnected over 10 kilometers using 10G single-mode

Oct 13, 2025

X-Ring Plus Ethernet Industrial Ring Technology

X-Ring Plus resilient ring technology is provided with network operating system 2.0 & is an enhanced version of Case Communications "X-Ring" technology.

Jun 27, 2026

X-Ring Ethernet Industrial Ring Technology

Case Communications X-Ring provides an Ethernet Ring between Industrial Ethernet switches, running at 10 Mbps, 100 Mbps or 1 Gbps. X-Ring can support

Aug 27, 2025

Industrial Automation Ring Network Solution

This solution builds a basic two-layer network architecture designed to decrease complexity, enhance security, and increase efficiency and operating uptime for

Jun 27, 2026

Redundancy Protocol Configuration Guide, Cisco

Device Level Ring (DLR) is a Layer 2 protocol that enables redundancy in a ring topology, providing fast network fault detection and

Jul 22, 2026

The OEM Guide to Networking ENET-RM001A-EN-P

This guide is intended to help OEMs understand key technologies, networking capabilities and other considerations that could impact them as they develop industrial Ethernet solutions for the machines

Jul 15, 2026

Redundant Ring Ethernet Cabling: MRP, PRP & HSR Harness

Proper harness design, independent cabling, and the correct protocol choice are critical for resilient industrial Ethernet networks. MRP, PRP, and HSR each have trade-offs—matching them

Contact Us

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