

Industrial-grade managed ring network switch



Article Overview

Industrial-grade managed switch ring networks use rugged switches and Ethernet Ring Protection Switching (ERPS) to ensure sub-50ms failover and high network availability in harsh industrial environments.

Overview of Industrial Managed Switches

Industrial managed switches are designed for harsh environments such as factories, transportation systems, and energy facilities. They provide Layer 2 and Layer 3 management, support Gigabit and 10G uplinks, and often include PoE capabilities to power devices like IP cameras and wireless access points directly through the network cable. These switches are built to withstand extreme temperatures, vibration, and electrical noise, ensuring reliable operation in mission-critical applications.

Ring Network Topology

A ring network connects switches in a circular topology, providing redundant paths for data. If a link or node fails, traffic can be rerouted in the opposite direction, maintaining network connectivity. This topology is particularly useful in industrial automation, process control, and transportation systems, where downtime can be costly.

Ethernet Ring Protection Switching (ERPS)...

Article Content

AMG570 Industrial Managed PoE Ethernet Network Switch

The AMG570 Series of Industrial Managed switches support 100Mb, 1Gb or 10Gb Ethernet, with port counts from 4-52, and with

Industrial Network Products

We offer network and security solutions to connect your automation products to each other and to the rest of your enterprise.

Industrial 8 Ports L2 Managed Gigabit PoE Fiber Switch with 4

Industrial 8 Ports L2 Managed Gigabit PoE Fiber Switch with 4 1000Base-X SFP Slots Layer 2+ Web Management Din Rail Network

Industrial Ethernet Switch

ORing offers a comprehensive portfolio of rugged industrial Ethernet switches, from cost-effective unmanaged and PoE models to

Industrial Switches (ISW) | Extreme Networks

Extreme Industrial Switches are an excellent choice for industrial environments, including intelligent transportation systems, utilities,

Industrial Gigabit Managed Switch

Redundant Power Input — The network switch has dual power input design, can offer redundant mechanisms for critical applications

Industrial Ethernet Switches

With high-speed 10-GE uplinks, high-wattage PoE options, ultra-low jitter, advanced network security features, and device-to-cloud

Ethernet Switches

Moxa provides a wide range of industrial Ethernet switches that feature industrial-grade reliability, network redundancy, strengthened

Industrial Managed Redundant Ethernet Switches, Rugged Ethernet ...

Managed Switches Advantech EKI managed switches provide simplicity, flexibility and security for industrial networks. Advantech “X

Layer 2 Managed Switches

Moxa's Layer 2 managed switches feature industrial-grade reliability, network redundancy, and security features based on the IEC

IGS-4215-16P4X

Ideal for buildings with strict security requirements, the IGS-4215-16P4X, with its 16 802.3at PoE+ ports, is well-suited for creating a

8GE+2SFP L2+ Industrial Fast Ring Managed Network Switch

Robust Industrial Network Switch Specially designed for harsh industrial uses, hardened grade rugged IP40 aluminum housing, -40

Industrial Ethernet Switches – Cost-Effective, Redundant Network ...

The individually configurable industrial switches reliably network all ETHERNET devices and ensure continuous access to your

Function Overview of the Industrial Managed Switch | WAGO

Industrial Managed Switches: Function Overview Administration and Diagnostics, Availability, Security, Data Transmission,

Industrial Ethernet Switches | Phoenix Contact

Our Industrial Ethernet Switch portfolio comprises Managed and Unmanaged Switches with Gigabit, PoE, IEC 61850 certification,

Contact Us

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