

Industrial Ring Network Smart Building Switch Manufacturers



Overview

Ring switch Find your ring switch easily amongst the 8 products from the leading brands (barantech, Yikia, DANPU 2026 | TOP 7 DIN Rail Industrial Switches.

Key Takeaways

Leading manufacturers of industrial ring network switches for smart buildings include InHand, Advantech, ORing, and Moxa, offering managed/unmanaged switches with redundancy, PoE, and industrial-grade reliability. Key Manufacturers and Offerings



1. InHand Networks InHand provides managed industrial switches like the ISM5010D, designed for smart factories and building automation. These switches support RSTP/MSTP ring protection for automatic failover, ensuring ultra-low latency and deterministic delivery of control commands. They are DIN-rail mountable, operate in extreme temperatures (-40~75°C), and include port-binding security to protect sensitive industrial assets . 2. Advantech Advantech offers a broad portfolio of L2/L3 managed and unmanaged Ethernet switches with PoE, 10G speeds, and network redundancy via X-Ring Pro. Their switches are certified for EN50155/IEC 61850, suitable for smart building and industrial IoT applications. Advantech also provides media converters, gateways, and wireless access points to integrate legacy systems and enable remote monitoring . 3. ORing ORing manufactures rugged industrial Ethernet switches, including managed and unmanaged PoE models. Their switches support Layer 2/3 management, precise control, and redundancy for ring networks. ORing switches are designed for harsh environments, with M12 connectors and compliance with EN50155 standards, making them suitable for smart building automation and industrial applications . 4. Moxa Moxa provides a wide range of industrial Ethernet switches, including Layer 2 and Layer 3 managed switches, PoE/PoE+/PoE++ options, and EN50155-compliant models for rail and building automation. Their switches support multiple industrial protocols such as PROFINET, Modbus, and EtherNet/IP, offer surge protection, and feature smart PoE management for efficient deployment in smart building networks .

Features to Consider for Smart Building Ring Networks

- Redundancy Protocols: RSTP, MSTP, or proprietary ring protocols for automatic failover.
- Environmental Durability: Wide operating temperature, vibration resistance, and electromagnetic noise immunity.
- Power over Ethernet (PoE): To power devices like IP cameras, sensors, and access points.
- Management Capabilities: Web GUI, SNMP, or industrial network management software.
- Certifications: EN50155, IEC 61850, NEMA TS2 for industrial and building automation compliance.
- Mounting Options: DIN-rail or panel mounting for integration into control cabinets. These manufacturers provide reliable solutions for industrial ring networks in smart buildings, ensuring high availability, low latency, and secure connectivity for IoT devices, sensors, and automation systems.

Article Content

Industrial Ring Networks | ERPS | Antaira Technologies

Antaira's industrial switches are capable of building a fault tolerant ring network with Ethernet Ring Protection Switching (ERPS). An

Industrial Ethernet Switch

Our range includes unmanaged, PoE, Lite-Managed, and Layer 2/3 managed switches that help support secure communication,

X-Ring Plus Ethernet Industrial Ring Technology

X-Ring plus resilient ring technology is provided with network operating system 2.0 and is an enhanced version of Case

Real-time Redundant Ring Switch Industrial Ethernet Switch

Introduction The Real-time Redundant Ring Switch offers fault-tolerant industrial Ethernet with ring network topology. The built-in ICP

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Hirschmann (Belden) provides industrial Ethernet switches optimized for building automation through the OCTOPUS

Industrial Ring Networks | ERPS | Antaira Technologies

Industrial Ethernet switches are critical components in network infrastructures, often used in harsh environments and mission-critical

X-Ring Plus Ethernet Industrial Ring Technology

The original X-Ring as supplied on the Case Communications range of industrial Ethernet switches provides a greatly improved re

X-Ring Ethernet Industrial Ring Technology

X-Ring Ethernet Industrial Ring Technology is supplied on the Case Communications range of Industrial Ethernet switches and

Industrial Network Products | Rockwell Automation | US

A unified industrial network built on Allen-Bradley control systems and Stratix Ethernet switches, designed to deliver predictable

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