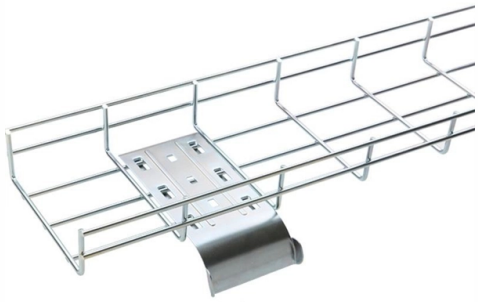
Unmanaged Switches Industry



Overview

How to Choose the Right Unmanaged Switch: Industry In an industrial site with dust, temperature and vibration; unmanaged switch must be rugged and reliable.

Key Takeaways

The unmanaged switches industry is a growing market, projected to reach USD 20. 50 billion by 2031, driven by demand for plug-and-play connectivity in industrial, commercial, and residential networks.

Market Size and Growth

The global unmanaged switch market was valued at USD 12. 50 billion in 2025 and is expected to grow to USD 20. 50 billion by 2031, at a CAGR of 6.

39% from 2026 to 2031. Growth is fueled by the need for simple, cost-effective network solutions in small and medium businesses, residential offices, and edge-industrial sites. Expansion of multi-gigabit broadband, Power over Ethernet (PoE) requirements, and regulatory pre-cabling mandates for smart buildings also support market growth.

Key Players

Major companies in the unmanaged industrial Ethernet switch market include Cisco, Siemens, Beckhoff Automation, Rockwell Automation, Schneider Electric, ABB, Belden, Eaton, Hitachi, IDEC, and OMRON. Cisco and Siemens lead in network solutions and software integration, while Beckhoff and Rockwell focus on automation technologies. Competitive strategies often involve IoT integration, sustainability initiatives, and mergers or acquisitions to expand market reach.

© 2026 ENSAA OPTICAL NETWORKS - All rights reserved

Applications and Use Cases

Unmanaged switches are widely used in industrial automation, video surveillance, utility services, and educational or government networks. They provide plug-and-play connectivity, enabling devices like PLCs, HMIs, VFDs, IP cameras, and intercoms to communicate without configuration. Their simplicity, durability, and low maintenance make them ideal for environments requiring stable, high-speed network performance.

Technical Characteristics

Layer 2 operation: Forward Ethernet frames based on MAC addresses without awareness of IP addresses or application data. Plug-and-play functionality: No configuration or monitoring required; devices communicate automatically. Durability: Industrial-grade models withstand extreme temperatures, vibration, humidity, and electrical noise.

Limitations: Lack of traffic prioritization, VLAN support, and troubleshooting capabilities; scalability is limited in complex networks.

Po

E support: Many models provide PoE, PoE+, or PoE++ for powering devices like cameras and access points.

Market Trends

Industrial Io

T adoption: Increasing automation and IoT integration drive demand for reliable unmanaged switches. Technological advancements: Higher bandwidth, improved thermal performance, and enhanced security features are transforming the market. Regional dynamics: North America, particularly the U.

S. and Canada, leads due to infrastructure investments and supportive policies, while Asia-Pacific sees growth from manufacturing and industrial automation expansion.

Summary

The unmanaged switches industry is expanding steadily, supported by the need for simple, reliable, and cost-effective networking solutions across industrial, commercial, and residential sectors. While they lack advanced management features, their ease of deployment, durability, and plug-and-play operation make them essential for small networks, edge devices, and industrial automation systems. Market growth is expected to continue as IoT adoption, PoE requirements, and smart building initiatives increase globally.

© 2026 ENSAA OPTICAL NETWORKS - All rights reserved

Article Content

How to Choose the Right Unmanaged Switch: Industry

In an industrial site with dust, temperature and vibration; unmanaged switch must be rugged and reliable. It can be used for Machine-to-Machine

Industrial Unmanaged Switches Explained: Reliability, Scale, and ...

Unmanaged switches play a critical role in OT networks. Learn how they affect reliability, scalability, troubleshooting, and cybersecurity on the plant floor.

Unmanaged Switches

Moxa has a large portfolio of industrial unmanaged switches that have been specifically designed for industrial Ethernet infrastructure. Our unmanaged Ethernet switches uphold the stringent standards

Industrial Ethernet Switch Selection: Choosing Among Managed,

Selecting the right Ethernet switch for your industrial network depends on several key factors, including application requirements, distance, performance, security monitoring and, of

How to Pick the Right Industrial Ethernet Switch: Managed vs.

If your network is small, stable, and does not require monitoring or traffic control, an unmanaged switch will deliver a simple, cost-effective solution. However, if you need high levels of

Industrial network switch

Find your industrial network switch easily amongst the 1,146 products from the leading brands (Hilscher, Volktek, Maisvch, ...) on DirectIndustry, the industry

EDS-316 Series

The EDS-316 Ethernet switches provide an economical solution for your industrial Ethernet connections. These 16-port switches come with a built-in relay warning function that alerts network engineers

Industrial Switch: Understanding Industrial Ethernet Switch ...

Types of Industrial Ethernet Switches include: Unmanaged switches Managed switches PoE switches Rackmount switches Railway Ethernet switches Hazardous Area Ethernet switches An Industrial

EDS-208 Series

© 2026 ENSAA OPTICAL NETWORKS - All rights reserved

The EDS-208 Series supports IEEE 802.3/802.3u/802.3x with 10/100M, full/half-duplex, MDI/MDIX auto-sensing RJ45 ports. The EDS-208 Series is rated to operate at temperatures ranging from -10 to

Top Reasons Behind Unmanaged Type Industrial Ethernet Switches

The comprehensive "Unmanaged Type Industrial Ethernet Switches market" research report is essential for understanding current trends, consumer preferences, and competitive dynamics. This report ...

EDS-2005-EL Series

Introduction The EDS-2005-EL series of industrial Ethernet switches have five 10/100M copper ports, which are ideal for applications that require simple industrial Ethernet connections.

Industrial Ethernet Switches | Industrial Network Switch | Perle

Rugged, yet easy to use, Perle has over 734 models of Ethernet switches that feature Industrial Protocol Management support, superior reliability, advanced security, network redundancy, and easy

Unmanaged Ethernet Switches

RS PRO 2727647 Compact Unmanaged Industrial Ethernet Switch 5 x 10/100 RJ45 Ports Dual 12-36Vdc RS PRO 2727647 Compact Unmanaged Industrial Ethernet Switch 5 x 10/100 RJ45 Ports

Industrial Ethernet Switches

Industrial Ethernet Switches Advantech''s industrial Ethernet solutions provide an abundance of product options including managed and unmanaged switches, Gigabit Ethernet switches, PoE switches

Phoenix Contact 2832849 Industrial Ethernet Switch, 16 Port, Unmanaged ...

These unmanaged switches provide a unique combination of affordability and maximum immunity against industrial environments. System startups and ongoing maintenance are reduced through a

Unmanaged Switches

Unmanaged OCTOPUS switches allow cost-effective connections to Ethernet terminal devices in harsh environmental conditions. Reliable and cost-effective solution to meet the specific electrical

Industrial Ethernet Switches | Phoenix Contact

© 2026 ENSAA OPTICAL NETWORKS - All rights reserved

Industrial unmanaged switches from Phoenix Contact feature variable numbers of ports and a narrow design. We provide unmanaged switches with a variety of functions, depending on the application.

Managed vs Unmanaged

Whilst unmanaged Ethernet switches provide greater simplicity and lower costs, they also pose the risk of loss of network visibility and network control. They can also be susceptible to

Contact Us

Continue your research online:

Website: https://ensaa.es
Technical inquiry: https://ensaa.es/contact.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 ENSAA OPTICAL NETWORKS - All rights reserved