

Article Overview

Global industrial Ethernet switch shipments reached 8.5 million units in 2024, with strong growth expected across manufacturing, automotive, and oil & gas sectors.

Global Market Overview

The industrial Ethernet switch market was valued at approximately USD 3.55 billion in 2025 and is projected to grow to USD 6.53-7.1 billion by 2034, reflecting a CAGR of 6.9-7.2% from 2025 to 2034 . Global shipments reached 8.5 million units in 2024, up from 7.2 million units in 2022, driven by increasing adoption of Gigabit Ethernet, Power over Ethernet (PoE), and Layer 3 managed switches . Industrial-grade hardened switches now account for 41% of the market, highlighting demand for robust, reliable networking in harsh environments.

Regional Insights

- o North America: The USA shipped 2.1 million units in 2024, representing 24.7% of the North American market. Gigabit Ethernet switches led with 52% of shipments, followed by 10/100 Mbps switches at 28%. Layer 2 managed switches accounted for 45% of installations, while PoE-enabled units made up 39% .
- o Asia-Pacific: Dominates the Ethernet switch market due to China's manufacturing base and India's digital infrastructure rollout, with rapid expansion in smart factories and IoT deployments .
- o Europe: Industrial automation and smart manufacturing adoption are driving growth, with Germany and France leading in industrial switch deployment .

Industry and Application Breakdown

- o Manufacturing: Represents 32% of industrial switch consumption in the USA, leveraging switches for real-time data transfer, automation, and Industry 4.0 connectivity .
- o Automotive: Accounts for 21% of U.S. consumption, supporting connected vehicle production lines and factory automation .
- o Oil & Gas: Comprises 15% of U.S. shipments, requiring ruggedized switches for remote and harsh environments .
- o Other sectors: Security and surveillance, smart grids, and energy management are increasingly adopting PoE-enabled and managed switches for high-bandwidth, reliable connectivity .

Technology Trends

- o Port Configurations: 24-port and 48-port switches represent 38% and 27% of the installed base, respectively .

Industrial Switch Shipments

- o Managed vs Unmanaged: Layer 3 managed switches contribute 32% of new deployments, while modular switches account for 18% of installations, with fixed configurations at 82% .
- o PoE and Gigabit Ethernet: PoE-enabled switches constitute 45% of new installations globally, supporting IoT devices and smart factory applications .
- o Automation and IoT: Adoption of IoT and smart manufacturing solutions drives 56% of industrial Ethernet switch deployments, emphasizing real-time monitoring and predictive maintenance .

Market Outlook

The industrial Ethernet switch market is expected to continue robust growth through 2035, fueled by Industry 4.0 adoption, automation, edge computing, and cybersecurity integration. Leading vendors include Cisco Systems, Siemens, Rockwell Automation, Moxa, Hirschmann, Belden, Advantech, Phoenix Contact, and Schneider Electric, reflecting a competitive landscape with strong emphasis on high-speed, reliable, and secure networking solutions . This growth trajectory indicates that industrial switch shipments will continue to expand globally, with increasing unit volumes and higher adoption of advanced features like PoE, Layer 3 management, and modular designs.

Data Center Switch Market Size The global data center switch market was valued at USD 16.2 billion in 2025. The market is

In the USA, Industrial Ethernet Switch shipments totaled 2.1 million units in 2024, representing 24.7% of the North

The Industrial Ethernet Switch Market caters to rugged industrial settings. These switches

Revenues in the DC segment of the Ethernet switch market are being driven by the highest-speed ports. Revenues

Global Industrial Ethernet Switch market size is expected to reach \$4.52 billion by 2030 at 8%, segmented as by type, managed

Global Router And Switch Market Report Segmentation This report forecasts revenue growth at the global, regional, and country

The global industrial Ethernet switch market size was valued at \$2.94 Billion in 2020, and is projected to reach \$4.99 Billion by 2028,

IDC's Worldwide Quarterly Ethernet Switch Tracker ® greatly enhances clients' ability to respond to today's dynamic IT market

Edge and enterprise data centers lean into fanless, temperature-hardened switches tailored for industrial and retail

D-Link's Industrial Switches have industrial-grade resilience to maintain your network uptime despite extreme hot and cold

Overview The market of the Industrial Ethernet Switch is rapidly changing with the industries embracing high-speed,

It improves network efficiency by reducing collisions and creating dedicated communication paths for devices. The

Network Switches Market Report 2026 Global Outlook - By Type (Fixed Configuration Switches, Managed Switches, Unmanaged

PubMed® comprises more than 40 million citations for biomedical literature from MEDLINE, life science journals, and online books.

China, India, and Japan are investing heavily in private 5G networks, edge computing, and smart industrial

Industrial Ethernet Switch Market is predicted to grow at a 7.52% CAGR, reaching USD 8.44 Billion by 2035.
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