

Edge Controller Market CAGR to be at 16% from 2025 to 2029 | \$8.14 Billion Industry Revenue by 2029

The Business Research Company's Edge Controller Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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What Is The Projected Market Size & Growth Rate Of The Edge Controller Market?

The [market for edge controllers has witnessed rapid expansion lately](#). The market worth is

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The Business Research Company's Latest Report Explores Market Driver, Trends, Regional Insights - Market Sizing & Forecasts Through 2034”

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projected to increase from \$3.86 billion in 2024 to \$4.49 billion in 2025, with a compound annual growth rate (CAGR) of 16.4%. Several factors have contributed to this upward trend in the past, including the escalating use of internet of things devices, the growing preference for smart grids, the expansion of 5G technology, an increase in the number of data centers, and a surge in the demand for renewable energy sources.

Predictions indicate a swift expansion in the edge controller market in the upcoming years, with its value

expected to reach \$8.14 billion by 2029, at a compound annual growth rate of 16.0%. This surge in the estimated period can be credited to the rising adoption of industrial automation, an increasing requirement for instant processing in industrial operations, a growing need for low late-response processing, an escalating demand for data privacy and protection, and an upsurge in demand for automation solutions. Notable trends within this forecasted period encompass progress in cloud technologies, integration with fire alarm systems, the emergence of industry 4.0 edge products, evolvment in leading-edge hardware and software technologies, and improvements in integrated controllers featuring real-time operating systems.

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What Is The Crucial Factor Driving The Global Edge Controller Market?

The growth of the edge controller market is predicted to be driven by the escalating number of data centers. A data center is a centralized location housing computing, networking, and storage resources, utilized to manage, process, and disseminate substantial quantities of data and applications. The increase in data centers stems from the burgeoning growth of cloud computing, as enterprises require extensible infrastructure for efficient storage, processing, and delivery of huge data volumes and applications. With the ability to enable real-time processing, efficient utilization of resources, and latency reduction, edge controllers significantly improve the performance and optimization of operations across dispersed networks. As reported by the National Telecommunications and Information Administration, a US-based government agency, there were approximately 5,000 data centers in the United States as of September 2024. The demand for these facilities is anticipated to rise by nearly 9% annually through 2030. Consequently, the edge controller market's expansion is propelled by the increasing number of data centers.

Who Are The Emerging Players In The Edge Controller Market?

Major players in the Edge Controller Global Market Report 2025 include:

- Siemens AG
- Intel Corporation
- Oracle Corporation
- Schneider Electric SE
- Mitsubishi Electric Corporation
- Honeywell International Inc.
- ABB India Limited
- Emerson Electric Co.
- Rockwell Automation Inc.
- Bosch Rexroth AG

What Are The Top Trends In The Edge Controller Industry?

Leading firms in the edge controller market are concentrating on creating cutting-edge solutions, including quantum-safe symmetric key agreement (SKA) communication systems, to aid in secure key management and encryption with less need for regular key updates, thus simplifying operations. Quantum-safe symmetric key agreement (SKA) communication platforms generate and control symmetric encryption keys through quantum-resistant cryptography to ensure secure communication against potential quantum threats. For example, in July 2025, UK company Arqit Quantum Inc. which specializes in quantum-safe encryption technology, introduced the SKA Edge Controller (SKA-EC), a robust quantum-safe symmetric key agreement (SKA) communication system. This system is crafted for preemptive defense operations, facilitating the rapid formation of secure, scalable command and control (C2) nodes in

dangerous and isolated surroundings without reliance on conventional encryption techniques. The SKA-EC system expands the SKA-Platform to the tactical edge, allowing mobile and distributed forces to function securely through compact hardware such as BioDigitalPC cards, COTS servers, or virtualized cloud nodes. It dynamically creates symmetric encryption keys across reliable endpoints, decreasing the risks associated with pre-shared keys (PSKs) and the complication of a public key infrastructure (PKI). This solution is crypto-agile, prepared for zero-trust, and fine-tuned for urgent, mission-critical operations.

What [Segments Are Covered In The Edge Controller Market](#) Report?

The edge controller market covered in this report is segmented

- 1) By Component: Hardware, Software, Services
- 2) By Technology Type: Information Technology, Programmable Logic Controller, General Motion Control, Computer Numerical Control And Industrial Personal Computer, Operating Technology, Factory Automation, Other Technologies
- 3) By Deployment Mode: On-Premises, Cloud
- 4) By Application: Power Generation, Power Distribution, Energy Storage, Energy Consumption
- 5) By End-User Industry: Energy, Utility, Power, Oil And Gas, Healthcare, Automotive Industry, Other End-User Industries

Subsegments:

- 1) By Hardware: Microcontrollers, Processors, Sensors, Actuators
- 2) By Software: Edge Analytics Software, Edge Device Management Software
- 3) By Services: Consulting Services, System Integration Services, Support And Maintenance Services

View the full edge controller market report:

<https://www.thebusinessresearchcompany.com/report/edge-controller-global-market-report>

Which Region Is Projected To Hold The Largest Market Share In The Global Edge Controller Market?

In 2024, the Edge Controller Global Market Report 2025 recognized North America as the leading region. It also projected Asia-Pacific to have the most rapid growth in the upcoming period. The report included a detailed study of several regions: Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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