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Internet Of Things (Iot) Node And Gateway Market Outlook 2025-2034: Market Share, and Growth Analysis By Component (Sensors, Processor, Connectivity IC, Logic Devices, Memory Devices), By Connectivity (Ethernet, Wi-fi, Bluetooth, Zigbee, Z-wave, Other Connectivities), By Application, By End User

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Abstracts

The Internet Of Things (Iot) Node And Gateway Market is valued at USD 18.3 billion in 2025 and is projected to grow at a CAGR of 25% to reach USD 135.9 billion by 2034.The Internet of Things (IoT) Node and Gateway Market serves as the critical backbone of IoT infrastructure by enabling data flow between edge devices and centralized cloud systems. IoT nodes—such as sensors, actuators, and embedded systems—are responsible for collecting data from the environment, while gateways act as intermediaries that filter, preprocess, and transmit this data securely to cloud platforms or local networks. These components are pivotal in ensuring seamless communication, protocol translation, edge analytics, and device management. They are deployed across industries including smart cities, healthcare, agriculture, manufacturing, and logistics. As IoT ecosystems scale in complexity and volume, the performance, security, and interoperability of nodes and gateways become crucial to maintaining efficiency and resilience. The market continues to evolve with innovations in connectivity technologies, embedded AI, and ruggedized hardware capable of operating in diverse environmental conditions. The IoT node and gateway market saw significant expansion driven by industrial automation, remote asset monitoring, and smart infrastructure projects. Edge computing played a larger role, prompting adoption of gateways with local data processing and AI inference capabilities to reduce latency and cloud dependence. Companies like Cisco, Advantech, Dell Technologies, and NXP

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Semiconductors introduced multi-protocol gateways supporting LoRaWAN, NB-IoT, Zigbee, and 5G. Ruggedized nodes were deployed in mining, oil and gas, and agriculture sectors for real-time monitoring in extreme environments. Healthcare facilities adopted medical-grade IoT nodes and secure gateways to support patient monitoring and device interoperability. Smart city initiatives utilized edge gateways in traffic lights, surveillance cameras, and utility meters to streamline urban management. Moreover, increased cybersecurity threats led manufacturers to embed hardware-level encryption and endpoint protection features in both nodes and gateways to meet compliance and resilience demands. The IoT node and gateway market will be shaped by trends in distributed intelligence, energy efficiency, and modular architecture. Nodes will feature enhanced on-device AI capabilities, enabling anomaly detection, behavior modeling, and real-time decision-making without relying on external systems. Gateways will act as edge orchestrators—aggregating data from hundreds of endpoints, managing network loads, and deploying microservices. As sustainability becomes a core design principle, ultra-low-power and energy-harvesting nodes will gain traction for long-term deployments in agriculture, environmental monitoring, and logistics. Interoperability and open-source platforms will become increasingly important, enabling cross-industry deployments and reducing vendor lock-in. Satellite-IoT integration will extend node and gateway reach to remote, off-grid locations for disaster response, shipping, and wildlife tracking. As IoT ecosystems expand, the demand for intelligent, secure, and scalable nodes and gateways will continue to accelerate, solidifying their role at the core of connected environments.

Key Insights Internet Of Things (Iot) Node And Gateway Market

OG Analysis highlights the rise of AI-enabled edge gateways that process IoT data locally to reduce latency, bandwidth usage, and reliance on cloud infrastructure, improving response time in mission-critical applications.

Low-power and energy-harvesting IoT nodes are trending, especially in agriculture and remote monitoring, where battery-less or solar-powered nodes support long-term deployments in difficult-to-reach environments, says OG Analysis.

According to OG Analysis, support for multiple protocols in a single gateway is gaining traction, allowing devices with different communication standards to interoperate within unified IoT ecosystems.

OG Analysis notes increased integration of hardware-level security in IoT nodes

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and gateways to protect edge devices from tampering, data theft, and network intrusion as cybersecurity risks grow.

Modular and scalable gateway designs are trending, enabling enterprises to customize functions based on application needs and easily upgrade processing power, memory, or interfaces without replacing entire systems.

OG Analysis identifies growing demand for real-time decision-making and edge analytics in industrial and mission-critical settings as a key driver for advanced IoT node and gateway adoption.

The global expansion of smart city and smart infrastructure projects is increasing the need for scalable, ruggedized, and interoperable gateways to manage data traffic and device networks, says OG Analysis.

OG Analysis notes rising adoption of Industry 4.0 and predictive maintenance programs, where IoT nodes and gateways collect and process sensor data from factory machinery and equipment in real time.

Advances in wireless communication, including 5G, LPWAN, and satellite IoT, are enabling wider deployment of IoT gateways and nodes across challenging geographies and mobile platforms, according to OG Analysis.

OG Analysis points out that high deployment and integration costs, especially for ruggedized or specialized gateways, remain a barrier for small- to medium-sized enterprises in cost-sensitive markets.

According to OG Analysis, the lack of unified standards and the coexistence of multiple communication protocols make integration across diverse devices complex, often requiring custom configurations and middleware.

Internet Of Things (Iot) Node And Gateway Market Segmentation

By Component

- Sensors
- Processor

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- Connectivity IC
- Logic Devices
- Memory Devices

By Connectivity

- Ethernet
- Wi-fi
- Bluetooth
- Zigbee
- Z-wave
- Other Connectivities

By Application

- Healthcare
- Automotive And Transportation
- Consumer Electronics
- Industrial
- BFSI
- Oil And Gas
- Aerospace And Defense

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Other Applications

By End User

Industrial

Consumer

Key Companies Analysed

Dell Inc.

Advantech Co. Ltd.

TE Connectivity Ltd.

Cisco Systems Inc.

Aaeon Technology Inc.

Microchip Technology Inc.

Nexcom International Co. Ltd.

Helium System Inc.

Samsara Networks Inc.

STMicroelectronics N. V.

Eurotech S. P. A

Adlink Technology Inc.

Mitsubishi Electric Corporation

Lantronix Inc.

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NXP Semiconductors N. V

The Hewlett Packard Enterprise Company

Arm Holdings plc

Intel Corporation

Huawei Technologies Co. Ltd.

Texas Instruments Incorporated

Notion Labs Inc.

Beep Inc.

Estimote Inc.

Kontron S&T AG

Moxa Inc.

MultiTech Systems Inc.

NimbeLink LLC

Particle Industries Inc.

Red Lion Controls Inc.

Rigado LLC

Sierra Wireless Inc.

Internet Of Things (Iot) Node And Gateway Market Analytics

The report employs rigorous tools, including Porter’s Five Forces, value chain mapping,

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and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Internet Of Things (Iot) Node And Gateway Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Internet Of Things (Iot) Node And Gateway market data and outlook to 2034

United States

Canada

Mexico

Europe — Internet Of Things (Iot) Node And Gateway market data and outlook to 2034

Germany

United Kingdom

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France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Internet Of Things (Iot) Node And Gateway market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Internet Of Things (Iot) Node And Gateway market data and outlook to 2034

Saudi Arabia

South Africa

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Iran

UAE

Egypt

South and Central America — Internet Of Things (Iot) Node And Gateway market data and outlook to 2034

Brazil

Argentina

Chile

Peru

* *We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Internet Of Things (Iot) Node And Gateway value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Internet Of Things (Iot) Node And Gateway industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in

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shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Internet Of Things (Iot) Node And Gateway Market Report

Global Internet Of Things (Iot) Node And Gateway market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Internet Of Things (Iot) Node And Gateway trade, costs, and supply chains

Internet Of Things (Iot) Node And Gateway market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Internet Of Things (Iot) Node And Gateway market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Internet Of Things (Iot) Node And Gateway market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Internet Of Things (Iot) Node And Gateway supply chain analysis

Internet Of Things (Iot) Node And Gateway trade analysis, Internet Of Things (Iot) Node And Gateway market price analysis, and Internet Of Things (Iot) Node And Gateway supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and

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products

Latest Internet Of Things (Iot) Node And Gateway market news and developments

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