

IT Outsourcing Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Service Type (Help Desk Services, Infrastructure Outsourcing, Business Process Outsourcing, Staff Augmentation, Project-Based Outsourcing, Others), By Type (Onshoring, Offshoring, Nearshoring), By Industry (BFSI, IT & Telecommunications, Retail, Healthcare, Energy, Others), By Region, By Competition Forecast & Opportunities, 2018-2028F

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Abstracts

Global IoT Node and Gateway Market was valued at USD 672.11 Million in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 15.19% through 2028.

IoT Node and Gateway are integral components of the Internet of Things (IoT) ecosystem, playing essential roles in enabling the seamless flow of data between connected devices and the broader network infrastructure.

IoT Node: An IoT Node is a fundamental building block of IoT systems. It represents individual devices or sensors within an IoT network. These nodes are responsible for sensing, collecting, and transmitting data from the physical world to the network. IoT nodes can include a wide variety of devices, such as temperature sensors, motion detectors, cameras, or even entire machines and appliances. They are often equipped with communication capabilities to transmit data wirelessly to a central point, which is typically an IoT Gateway or directly to the cloud. IoT nodes are characterized by their ability to sense and monitor the environment, capture data, and often have low-power

consumption to extend battery life.

IoT Gateway: An IoT Gateway, also known as a bridge or edge gateway, acts as an intermediary between IoT nodes and the broader network, typically the internet or a private network. Gateways play a critical role in aggregating, processing, and forwarding data from multiple IoT nodes. They are responsible for data filtering, protocol translation, and sometimes even local data processing to reduce latency and improve efficiency. IoT Gateways are particularly valuable in scenarios where a large number of IoT nodes are dispersed across a wide area and need to communicate with centralized systems. They ensure that data from diverse IoT nodes is efficiently transmitted to cloud platforms or data centers for analysis and decision-making.

In essence, IoT Nodes are the data sources, while IoT Gateways are the intelligent bridges that facilitate the flow of data, enabling the IoT ecosystem to function effectively and deliver valuable insights and automation.

Key Market Drivers

Proliferation of IoT Devices:

The proliferation of Internet of Things (IoT) devices across various industries is a significant driver of the IoT Node and Gateway market. IoT devices, which include sensors, actuators, and smart devices, generate vast amounts of data. Nodes and gateways serve as essential components for collecting, processing, and transmitting this data to centralized systems for analysis and decision-making. Industries such as manufacturing, agriculture, healthcare, and smart cities are deploying IoT devices at an unprecedented scale to improve operational efficiency, enhance services, and reduce costs. As more devices connect to the IoT ecosystem, the demand for nodes and gateways to manage data traffic and ensure secure communication continues to grow.

Growing Demand for Edge Computing:

The increasing demand for edge computing capabilities is driving the adoption of IoT nodes and gateways. Edge computing involves processing data closer to the source, reducing latency and enabling real-time decision-making. IoT nodes and gateways play a vital role in facilitating edge computing by preprocessing data locally before transmitting it to the cloud or data center. Edge computing is particularly valuable in applications requiring low latency, such as autonomous vehicles, industrial automation, and remote monitoring. As organizations seek to harness the benefits of edge

computing, the demand for IoT nodes and gateways equipped with processing power and connectivity increases.

Industrial IoT (IIoT) Adoption:

The adoption of Industrial IoT (IIoT) in manufacturing, logistics, and supply chain industries is a significant driver. IIoT leverages IoT nodes and gateways to connect machinery, sensors, and production equipment to improve operational efficiency, monitor equipment health, and enable predictive maintenance. Manufacturers are investing in IoT nodes and gateways to create connected factories and supply chains, leading to reduced downtime, optimized processes, and cost savings. The transformative impact of IIoT on industries fuels the demand for robust and scalable IoT connectivity solutions.

5G Network Expansion:

The rollout of 5G networks is a pivotal driver for the IoT Node and Gateway market. 5G offers higher bandwidth, lower latency, and greater device density compared to previous generations of wireless networks. This makes 5G networks ideal for supporting the massive connectivity requirements of IoT devices. IoT nodes and gateways need reliable, high-speed connectivity to transmit data efficiently. As 5G infrastructure expands globally, it provides the necessary connectivity backbone for IoT deployments, encouraging organizations to invest in nodes and gateways compatible with 5G networks.

Security and Privacy Concerns:

The increasing awareness of security and privacy concerns in IoT deployments is a driver for enhanced IoT node and gateway adoption. IoT devices are vulnerable to cyberattacks and data breaches, making security a top priority. Nodes and gateways can incorporate security features such as encryption, secure boot, and access controls to protect data and devices. Organizations are investing in secure IoT solutions to safeguard their IoT ecosystems, ensure data integrity, and maintain customer trust.

Smart Cities Initiatives:

The global trend toward smart cities, driven by urbanization and the need for efficient resource management, contributes to the growth of the IoT Node and Gateway market. Smart city projects involve deploying IoT devices for applications like traffic

management, waste management, environmental monitoring, and public safety. IoT nodes and gateways enable the connectivity and data processing required for smart city initiatives. As governments and municipalities worldwide invest in transforming their urban environments, the demand for IoT node and gateway solutions tailored to smart city applications rises.

In conclusion, the IoT Node and Gateway market are driven by factors such as the proliferation of IoT devices, the growing demand for edge computing, IIoT adoption, 5G network expansion, security concerns, and smart city initiatives. These drivers collectively contribute to the increasing importance and adoption of IoT connectivity solutions.

Government Policies are Likely to Propel the Market

Data Privacy and Protection Regulations:

Government policies related to data privacy and protection, such as the European Union's General Data Protection Regulation (GDPR) and similar laws in other regions, have a significant impact on the IoT Node and Gateway market. These policies require organizations to implement stringent measures for collecting, storing, and processing personal data generated by IoT devices. Compliance with data privacy regulations necessitates the use of secure IoT nodes and gateways with built-in data encryption, access controls, and secure communication protocols.

Cybersecurity and IoT Security Guidelines

Governments and regulatory bodies are increasingly issuing guidelines and standards for IoT security. These policies aim to enhance the security of IoT devices, including nodes and gateways, to mitigate cybersecurity risks. Compliance with these regulations may require manufacturers to incorporate security features like secure boot, over-the-air (OTA) updates, and vulnerability assessments into IoT nodes and gateways.

Spectrum Allocation and Connectivity Standards

Governments regulate the allocation of radio spectrum and establish connectivity standards that impact IoT communication protocols. Policies related to spectrum allocation determine which frequency bands IoT devices can use, affecting the design and functionality of IoT nodes and gateways. Ensuring compatibility with government-defined standards is essential for IoT device manufacturers.

Export Controls and Trade Regulations:

Government policies on export controls and trade regulations impact the international trade of IoT nodes and gateways. Manufacturers must adhere to these policies when exporting IoT hardware and technologies. Compliance ensures that IoT devices meet specific security and regulatory requirements in different regions and countries, facilitating global market access.

IoT Device Certification and Testing Requirements:

Many governments and regulatory bodies require IoT devices, including nodes and gateways, to undergo certification and testing processes before they can be deployed. These policies aim to ensure the reliability, interoperability, and safety of IoT devices. Compliance often involves rigorous testing for electromagnetic compatibility (EMC), radio frequency (RF) emissions, and other technical aspects.

Environmental Regulations and E-Waste Management:

Government policies concerning environmental regulations and electronic waste (e-waste) management have an indirect impact on the IoT Node and Gateway market. Manufacturers must adhere to regulations related to energy efficiency, hazardous materials, and responsible disposal of electronic components. These policies drive the development of energy-efficient IoT devices and promote sustainable practices in the IoT industry.

In summary, government policies and regulations significantly shape the IoT Node and Gateway market by influencing data privacy, cybersecurity, connectivity standards, export controls, certification and testing requirements, and environmental considerations. Manufacturers and stakeholders in the IoT ecosystem must navigate and comply with these policies to ensure their IoT solutions meet regulatory standards and gain market acceptance.

Key Market Challenges

Interoperability and Compatibility Issues

Interoperability and compatibility challenges are significant barriers in the Global IoT Node and Gateway market. IoT ecosystems consist of diverse devices, sensors,

gateways, and platforms from various manufacturers, each with its own communication protocols and standards. This heterogeneity creates several challenges:

Fragmented Ecosystem: The IoT market is fragmented, with numerous proprietary and non-standardized protocols and technologies. Devices from different vendors often struggle to communicate seamlessly, leading to operational inefficiencies and increased complexity for end-users.

Integration Complexity: Building a cohesive IoT solution that integrates devices and gateways from different vendors can be technically challenging and time-consuming. This complexity can hinder the adoption of IoT in enterprises and industries.

Scalability Concerns: As IoT deployments scale, the interoperability problem becomes more pronounced. Scaling a heterogeneous IoT ecosystem while maintaining compatibility and ensuring data flow across devices and gateways becomes increasingly complex.

Security Risks: Incompatibility and interoperability issues can create security vulnerabilities. When devices cannot communicate properly, security patches and updates may not be applied uniformly, leaving vulnerabilities unaddressed.

Costly Customization: Organizations often need to invest in custom integration solutions or middleware to bridge the interoperability gap, which can be costly and time-intensive.

Addressing these interoperability and compatibility challenges requires industry-wide efforts to develop and adopt standardized communication protocols and frameworks. Organizations, standards bodies, and governments should collaborate to establish common IoT standards, making it easier for devices and gateways to work together seamlessly.

Security and Privacy Concerns

Security and privacy challenges are pervasive and critical in the Global IoT Node and Gateway market. IoT ecosystems handle vast amounts of sensitive data, often involving personal and critical information. Addressing security and privacy challenges is essential for the continued growth and trustworthiness of IoT deployments:

Vulnerabilities in Devices: Many IoT devices, including nodes and gateways, are resource-constrained and may lack robust security features. These devices can become

entry points for cyberattacks if not adequately protected.

Data Privacy Risks: IoT devices collect a wealth of data, including personal and location-based information. Unauthorized access to this data can result in privacy breaches, identity theft, and other forms of data misuse.

Lack of Security Standards: The IoT industry lacks comprehensive security standards and best practices. This absence of standards can lead to inconsistent security measures across devices and gateways.

Device Management and Updates: Ensuring that IoT devices and gateways receive timely security updates and patches can be challenging. Many devices are deployed in remote or inaccessible locations, making regular maintenance difficult.

Regulatory Compliance: Organizations must navigate complex and evolving data privacy regulations, such as GDPR and CCPA. Compliance requirements can vary by region and industry, adding to the complexity of IoT deployments.

DDoS and Botnet Attacks: IoT devices, when compromised, can be harnessed into botnets and used for distributed denial-of-service (DDoS) attacks, amplifying the impact of cyberattacks.

Additionally, Mitigating security and privacy challenges in the IoT Node and Gateway market requires a multifaceted approach:

Security by Design: IoT manufacturers should prioritize security during the design and development phase, implementing strong authentication, encryption, and secure boot mechanisms.

Regular Updates: Ensuring that devices receive regular security updates and patches is crucial. IoT device management platforms play a significant role in managing updates.

Education and Awareness: Users and organizations need to be educated about IoT security best practices and the risks associated with IoT devices.

Regulatory Compliance: Organizations must stay informed about and comply with relevant data privacy regulations to protect user data and avoid legal consequences.

Collaboration: Industry collaboration is essential to develop and promote security

standards, certifications, and frameworks that enhance the security posture of IoT nodes and gateways.

By addressing these security and privacy challenges, the IoT Node and Gateway market can establish a stronger foundation for the secure and responsible adoption of IoT technologies.

Segmental Insights

Connectivity ICs Insights

The Connectivity ICs segment had the largest market share in 2022 & expected to maintain in the forecast period. Connectivity ICs (Integrated Circuits) play a crucial role in the Global IoT Node and Gateway market. These chips are essential components that enable IoT devices, nodes, and gateways to establish reliable communication with other devices, networks, and cloud platforms. Connectivity ICs provide support for a wide range of communication protocols, allowing IoT nodes and gateways to connect to various networks and devices. This versatility is critical because IoT ecosystems often consist of devices using different protocols, such as Wi-Fi, Bluetooth, Zigbee, LoRa, Cellular (3G, 4G, 5G), and more. Connectivity ICs act as translators, ensuring seamless communication within the IoT ecosystem. Many IoT deployments involve wireless communication due to the need for flexibility and mobility. Connectivity ICs for wireless technologies like Wi-Fi and Bluetooth Low Energy (BLE) enable IoT devices to connect to local networks, smartphones, and other IoT devices. These ICs are designed for low power consumption, making them suitable for battery-operated IoT nodes. In applications where long-range connectivity and low power consumption are essential, such as smart agriculture and asset tracking, Connectivity ICs using technologies like LoRa (Long Range) and Sigfox play a significant role. These ICs provide extended coverage and extended battery life, enabling IoT nodes and gateways to transmit data over kilometers without frequent battery replacements. For IoT deployments requiring ubiquitous and robust connectivity, cellular Connectivity ICs are pivotal. These ICs support 3G, 4G, and 5G cellular networks, enabling IoT gateways to connect to the internet and cloud services from virtually anywhere. Cellular IoT is vital for applications like fleet management, remote monitoring, and smart cities. Some Connectivity ICs incorporate edge processing capabilities, allowing IoT nodes and gateways to perform data preprocessing tasks locally. This is particularly valuable in edge computing scenarios, where data is processed at or near the source, reducing latency and conserving bandwidth. These ICs may include microcontrollers or microprocessors to handle local data processing tasks. Security is a paramount concern in IoT

deployments. Connectivity ICs often come with built-in security features such as encryption, secure boot, and secure key storage. These features protect data during transmission and prevent unauthorized access to IoT nodes and gateways, enhancing the overall security of the IoT ecosystem. Connectivity ICs are designed to support IoT industry standards and communication protocols, ensuring compatibility with various IoT platforms and ecosystems. This support simplifies the integration of IoT devices into existing infrastructures and promotes interoperability among devices from different manufacturers. IoT deployments often need to scale to accommodate a growing number of devices. Connectivity ICs are designed with scalability in mind, allowing organizations to expand their IoT networks by adding more nodes and gateways as needed.

Consumer Electronics Insights

The Consumer electronics segment had the largest market share in 2022 and is projected to experience rapid growth during the forecast period. Consumer electronics play a significant role in the Global IoT Node and Gateway market, serving as endpoints for user interaction and data collection. These devices are essential components of the Internet of Things (IoT) ecosystem, enabling individuals to access and control IoT applications and services. The IoT Node and Gateway market benefits from the widespread adoption of IoT-enabled consumer electronics. These devices include smartphones, tablets, smart TVs, voice assistants (e.g., Amazon Alexa, Google Assistant), wearables (e.g., smartwatches, fitness trackers), and smart home appliances (e.g., smart thermostats, smart locks, smart refrigerators). These devices serve as user interfaces to interact with IoT nodes and gateways, providing users with control, monitoring, and data access. Consumer electronics play a crucial role in making IoT applications more user-friendly. Mobile apps, web interfaces, and voice commands on these devices simplify the management of IoT devices and data. Users can control smart home devices, access real-time data from IoT sensors, and receive alerts and notifications through their smartphones and other consumer electronics. Consumer electronics continuously collect data from users, providing valuable insights that can enhance IoT applications. For example, wearables collect health and fitness data, smartphones track location information, and smart home devices monitor usage patterns. This data can be analyzed and used to optimize IoT services, such as personalized recommendations or health monitoring. Voice assistants integrated into consumer electronics are increasingly being used as interfaces for IoT control and management. Users can use voice commands to interact with IoT devices, making it easier to control smart homes, query IoT data, and perform various tasks without the need for physical interaction. Consumer electronics provide remote connectivity to IoT

nodes and gateways. Users can access and control IoT devices from anywhere with an internet connection. For instance, users can adjust the thermostat or check security camera feeds using their smartphones while away from home. Wearable IoT devices, such as smartwatches and fitness trackers, are a subset of consumer electronics that have seen significant growth. These devices often serve as personal health and fitness monitors, collecting data like heart rate, sleep patterns, and activity levels. They contribute to the wellness and healthcare aspects of the IoT market. As consumer electronics play a central role in the IoT ecosystem, they also raise privacy and security concerns. The collection and sharing of user data by these devices can lead to privacy breaches if not adequately protected. Consequently, there is an increasing focus on consumer data protection and cybersecurity in IoT implementations.

Regional Insights

North America held the largest market for IoT nodes and gateways in the global market share in 2022. This is due to the early adoption of IoT technologies in the region, as well as the presence of a large number of major players in the market. The United States is the largest market for IoT nodes and gateways in North America, followed by Canada and Mexico. The market in the United States is driven by the increasing adoption of IoT technologies in the automotive, healthcare, and manufacturing industries. The automotive industry is one of the major drivers of the IoT node and gateway market in North America. The increasing demand for connected cars and autonomous vehicles is driving the adoption of IoT nodes and gateways in this industry.

Europe had the second-largest market for IoT nodes and gateways in the global market share in 2022. The market in this region is driven by the increasing adoption of IoT technologies in the automotive, healthcare, and manufacturing industries. Germany is the largest market for IoT nodes and gateways in Europe, followed by the United Kingdom and France. The market in Germany is driven by the increasing adoption of IoT technologies in the automotive and manufacturing industries. The United Kingdom is the second largest market for IoT nodes and gateways in Europe, followed by France. The market in the United Kingdom is driven by the increasing adoption of IoT technologies in the healthcare and manufacturing industries.

Key Market Players

Cisco Systems Inc

Huawei Technologies Co., Ltd

Intel Corporation

IBM Corporation

Texas Instruments Incorporated

Advantech Co., Ltd.

Digi International Inc.

Schneider Electric SE

Mitsubishi Electric Corporation

Sierra Wireless Inc.

Report Scope:

In this report, the Global IoT Node and Gateway Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

IoT Node and Gateway Market, By Hardware:

Processor

Sensor

Wired

Wireless

Connectivity IC

Memory Device

IoT Node and Gateway Market, By End-User:

BFSI

Healthcare

Wearable

Consumer Electronics

Agriculture

Building & Automation

IoT Node and Gateway Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global IoT Node and Gateway Market.

Available Customizations:

Global IoT Node and Gateway market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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