

# **Vietnam Internet of Things Market, By Platform (Network Management, Application Management and Device Management), By Component (Software, Hardware, Service), By Application (Consumer Electronics, Smart Mobility & Transportation, Building & Home Automation, Connected Logistics, Smart Retail, and Others), By Region, Competition, Forecast & Opportunities, 2019-2029F**

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## **Abstracts**

Vietnam Internet of Things Market was valued at USD 3.7 billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 16.2% through 2029. The Vietnam Internet of Things (IoT) market is experiencing rapid growth, fueled by increasing digitization across industries, rising demand for connected devices, and government initiatives promoting technology adoption. As Vietnam's urban population grows and its manufacturing sector expands, the country is increasingly leveraging IoT solutions to enhance operational efficiency, improve resource management, and drive innovation.

Key sectors such as manufacturing, agriculture, healthcare, and smart cities are at the forefront of IoT deployment, facilitating data-driven decision-making and enabling automation. In manufacturing, IoT technologies are optimizing production processes, reducing downtime, and enhancing supply chain management. In agriculture, IoT is transforming traditional practices by providing real-time data on soil conditions, weather patterns, and crop health, thereby increasing yields and reducing waste. The healthcare sector is adopting IoT to improve patient care through remote monitoring and telemedicine, while smart city initiatives are using IoT to enhance urban living through

better traffic management, energy efficiency, and public safety. The growth of the Vietnam IoT market is further supported by advancements in telecommunications infrastructure, including the rollout of 5G networks, which provide the necessary bandwidth and speed for IoT applications. Additionally, the availability of skilled talent in the technology sector is driving the development and adoption of IoT technologies across the country.

Vietnam IoT market offers lucrative opportunities for businesses and investors aiming to capitalize on the country's digital transformation journey. Vietnam's proactive approach to embracing IoT positions it as a potential regional leader in IoT innovation and adoption, making it an attractive destination for IoT-related investments and initiatives.

## Key Market Drivers

### Government Initiatives and Policies

Government initiatives and policies play a pivotal role in driving the growth of the Internet of Things (IoT) market in Vietnam. The Vietnamese government has recognized the transformative potential of IoT technologies in fostering economic development, improving public services, and addressing societal challenges. As part of its broader digital transformation agenda, the government has rolled out various programs and policies aimed at promoting IoT adoption across sectors. These initiatives include incentives for businesses to invest in IoT infrastructure, support for research and development in IoT-related technologies, and the establishment of regulatory frameworks to govern IoT deployments. For example, the Ministry of Information and Communications has launched initiatives to develop IoT standards and promote interoperability among devices, fostering a conducive environment for IoT innovation and deployment. Additionally, government-led smart city projects, such as those in Ho Chi Minh City and Hanoi, are driving demand for IoT solutions in urban infrastructure, transportation, and public services. By providing strategic guidance, financial incentives, and regulatory support, the government is catalyzing the growth of the IoT market in Vietnam and positioning the country as a regional leader in IoT innovation and adoption.

### Growing Demand for Smart Manufacturing Solutions

The rising demand for smart manufacturing solutions is a significant driver of the IoT market in Vietnam. As the country seeks to transition towards higher value-added manufacturing activities, there is increasing emphasis on leveraging IoT technologies to enhance productivity, efficiency, and competitiveness in the manufacturing sector. IoT-

enabled solutions such as industrial automation, predictive maintenance, and supply chain optimization are enabling Vietnamese manufacturers to streamline operations, reduce downtime, and improve product quality. Moreover, with the advent of Industry 4.0, Vietnamese manufacturers are embracing digital technologies to create smart factories that are interconnected, data-driven, and agile. These smart manufacturing initiatives are supported by government programs such as the 'Made in Vietnam 4.0' strategy, which aims to accelerate the adoption of advanced technologies, including IoT, in the manufacturing sector. As a result, there is growing demand for IoT hardware, software, and services from Vietnamese manufacturers seeking to modernize their operations and stay competitive in the global marketplace.

### Increasing Urbanization and Smart City Initiatives

The rapid urbanization of Vietnam and the corresponding rise in smart city initiatives are driving the adoption of IoT technologies across urban infrastructure and public services. With a growing population migrating to cities, there is a pressing need to address urban challenges such as traffic congestion, pollution, and resource management. IoT solutions offer cities the ability to collect and analyze real-time data from sensors embedded in various urban systems, enabling better decision-making and resource allocation. For example, IoT-enabled traffic management systems can optimize traffic flow, reduce congestion, and enhance road safety, while smart energy grids can improve energy efficiency and sustainability. Vietnamese cities such as Ho Chi Minh City and Hanoi are actively pursuing smart city projects that leverage IoT technologies to enhance livability, sustainability, and economic competitiveness. These initiatives are supported by government funding, public-private partnerships, and collaboration with technology vendors, driving the growth of the IoT market in the urban context.

### Increasing Connectivity and Mobile Penetration

The proliferation of mobile devices and the expansion of connectivity infrastructure are key drivers fueling the growth of the IoT market in Vietnam. With a young and tech-savvy population, Vietnam has experienced rapid growth in mobile penetration rates, with millions of users accessing the internet via smartphones and tablets. This widespread connectivity is creating opportunities for IoT applications and services that leverage mobile networks to connect and control devices remotely. Moreover, the rollout of 4G and upcoming 5G networks is further enhancing connectivity speeds and reliability, enabling more robust and scalable IoT deployments. As a result, there is growing demand for IoT solutions that cater to the mobile-first preferences of Vietnamese consumers and businesses. From smart home devices and wearables to

industrial sensors and connected vehicles, IoT products that offer seamless integration with mobile platforms are gaining traction in the Vietnamese market. Additionally, the availability of affordable smartphones and data plans is democratizing access to IoT technologies, driving adoption across diverse demographics and socioeconomic segments.

### Emerging Start-up Ecosystem and Innovation Culture

The emergence of a vibrant start-up ecosystem and a culture of innovation are driving the growth of the IoT market in Vietnam. In recent years, Vietnam has seen a surge in entrepreneurial activity, with a growing number of technology start-ups focusing on IoT-related solutions and services. These start-ups benefit from a supportive ecosystem that includes incubators, accelerators, venture capital funding, and government support programs. Moreover, Vietnam's young and highly skilled workforce, coupled with a culture of creativity and entrepreneurship, is fueling innovation in the IoT space. Start-ups are developing innovative IoT applications across various sectors, from agriculture and healthcare to retail and logistics, addressing local challenges and seizing market opportunities. Furthermore, collaborations between start-ups, corporates, research institutions, and government agencies are fostering a collaborative innovation ecosystem that drives the co-creation and commercialization of IoT solutions. As Vietnam continues to position itself as a hub for technology innovation and entrepreneurship, the IoT market is poised to benefit from the dynamism and creativity of its burgeoning start-up community.

### Key Market Challenges

#### Security and Privacy Concerns

One of the foremost challenges facing the Vietnam Internet of Things (IoT) market is the heightened concern over security and privacy issues associated with IoT deployments. As IoT devices become increasingly interconnected and integrated into various aspects of daily life and critical infrastructure, they present lucrative targets for cyberattacks and unauthorized access. Vulnerabilities in IoT devices, such as insufficient authentication mechanisms, insecure communication protocols, and outdated firmware, can be exploited by malicious actors to compromise data integrity, steal sensitive information, or launch large-scale cyberattacks. Moreover, the vast amounts of data generated by IoT devices, often including personal and confidential information, raise significant privacy concerns regarding data collection, storage, and usage. Inadequate security measures and lax privacy practices not only undermine consumer trust but also pose

regulatory compliance risks for businesses operating in the IoT space. Addressing security and privacy challenges requires a multi-faceted approach involving robust encryption protocols, secure device authentication mechanisms, regular software updates, and adherence to data protection regulations such as the General Data Protection Regulation (GDPR). Furthermore, fostering greater awareness among IoT stakeholders about the importance of security and privacy best practices is essential to building a more resilient and trustworthy IoT ecosystem in Vietnam.

### Interoperability and Standards

Another critical challenge hindering the growth of the Vietnam IoT market is the lack of interoperability and standardization among IoT devices, platforms, and protocols. The IoT landscape is characterized by a myriad of proprietary technologies, communication protocols, and data formats, which often result in siloed deployments and compatibility issues. Incompatibility between different IoT devices and platforms complicates integration efforts and limits the scalability and interoperability of IoT solutions, particularly in heterogeneous environments. Moreover, the absence of universally accepted standards and protocols for IoT communication, data exchange, and device management further exacerbates interoperability challenges. This fragmentation not only increases deployment costs and complexity but also impedes innovation and stifles market growth. Addressing interoperability and standards issues requires collaborative efforts among industry stakeholders, standardization bodies, and government agencies to develop and promote open, interoperable frameworks for IoT deployment. Adopting industry-wide standards for communication protocols, data formats, and device management interfaces can facilitate seamless integration and interoperability across diverse IoT ecosystems, enabling more efficient data sharing, cross-platform compatibility, and scalability of IoT deployments in Vietnam.

### Infrastructure Limitations

Infrastructure limitations pose significant challenges to the expansion of the IoT market in Vietnam. While major urban centers like Ho Chi Minh City and Hanoi boast relatively robust telecommunications networks and internet connectivity, rural and remote areas often lack adequate infrastructure to support IoT deployments. Limited access to high-speed internet, unreliable power supply, and inadequate network coverage in remote regions constrain the feasibility and scalability of IoT initiatives, particularly in sectors such as agriculture, healthcare, and logistics. Additionally, the high cost of deploying and maintaining IoT infrastructure, including sensors, gateways, and communication networks, presents barriers to entry for businesses, especially small and medium-sized

enterprises (SMEs). Bridging the infrastructure gap requires concerted efforts from both public and private sectors to invest in expanding broadband connectivity, upgrading power infrastructure, and deploying IoT-specific network technologies such as low-power wide-area networks (LPWANs). Moreover, innovative approaches such as leveraging satellite and wireless technologies can help extend IoT coverage to underserved areas, enabling more inclusive and equitable access to IoT-enabled services and solutions across Vietnam.

### Skills Shortage and Talent Gap

A critical challenge facing the Vietnam IoT market is the shortage of skilled professionals and the talent gap in emerging IoT technologies. Despite the rapid growth of the IoT sector, there is a scarcity of professionals with specialized expertise in areas such as data analytics, cybersecurity, software development, and IoT device management. This skills gap hampers the successful implementation and operation of IoT projects, limiting the ability of organizations to leverage IoT technologies effectively to drive innovation and achieve business objectives. Furthermore, the fast-paced nature of technological advancements in the IoT space requires continuous upskilling and reskilling of the workforce to keep pace with evolving industry trends and best practices. Addressing the skills shortage necessitates concerted efforts from academia, industry, and government to develop relevant training programs, certification courses, and vocational initiatives focused on IoT-related skills development. By investing in education and workforce development initiatives, Vietnam can cultivate a talent pool equipped with the requisite skills and knowledge to drive innovation, spur IoT adoption, and accelerate digital transformation across sectors. Additionally, fostering collaboration between industry and academia through internships, research partnerships, and industry-academic consortia can facilitate knowledge transfer and bridge the gap between theoretical knowledge and practical application of IoT technologies in Vietnam.

### Key Market Trends

#### Integration of Artificial Intelligence (AI) and Machine Learning (ML) in IoT Solutions

The Vietnam Internet of Things (IoT) market is the increasing integration of artificial intelligence (AI) and machine learning (ML) technologies into IoT solutions. AI and ML algorithms are being leveraged to analyze vast volumes of data generated by IoT devices, extract actionable insights, and enable predictive analytics capabilities. By combining AI-powered analytics with real-time sensor data, organizations can gain deeper visibility into their operations, identify patterns, and anticipate future trends or

anomalies. For example, in manufacturing, AI-driven predictive maintenance systems can analyze equipment performance data to predict potential failures and schedule maintenance proactively, reducing downtime and optimizing productivity. Similarly, in smart cities, AI-powered traffic management systems can analyze real-time traffic flow data to optimize signal timings and alleviate congestion. The integration of AI and ML with IoT not only enhances the intelligence and autonomy of connected devices but also enables more efficient decision-making, resource optimization, and automation across various sectors. As AI and ML technologies continue to mature and become more accessible, their convergence with IoT is expected to drive innovation and unlock new opportunities for businesses in Vietnam.

### Expansion of IoT Applications in Healthcare

The Vietnam IoT market is the expansion of IoT applications in the healthcare sector. IoT technologies are revolutionizing healthcare delivery by enabling remote patient monitoring, personalized treatment plans, and real-time health data analytics. Wearable devices, smart sensors, and connected medical equipment are increasingly being deployed to monitor vital signs, track medication adherence, and provide early warnings for potential health issues. For example, IoT-enabled wearable devices can continuously monitor patients' heart rate, blood pressure, and activity levels, allowing healthcare providers to remotely monitor patients with chronic conditions and intervene proactively when necessary. Moreover, IoT solutions are being used to optimize hospital operations, improve asset management, and enhance patient care experiences. For instance, IoT-enabled asset tracking systems can help hospitals monitor the location and status of medical equipment, reducing inventory costs and minimizing equipment downtime. As Vietnam's healthcare system undergoes digital transformation and adopts more patient-centric care models, the demand for IoT solutions in healthcare is expected to grow, driving improvements in healthcare access, quality, and efficiency across the country.

### Rise of Edge Computing for IoT Deployments

The rise of edge computing is emerging as a significant trend reshaping the landscape of IoT deployments in Vietnam. Edge computing involves processing data closer to the source of data generation, such as IoT devices or sensors, rather than relying solely on centralized cloud servers. This approach offers several advantages for IoT deployments, including reduced latency, improved data privacy, and enhanced reliability in bandwidth-constrained environments. By processing data locally at the edge of the network, edge computing enables faster response times and real-time decision-making,

making it well-suited for latency-sensitive IoT applications such as industrial automation, autonomous vehicles, and smart cities. Moreover, edge computing helps alleviate concerns around data privacy and security by minimizing the need to transmit sensitive information over the network to centralized servers. In Vietnam, where network infrastructure may vary in reliability and bandwidth availability, edge computing offers a viable solution to support IoT deployments in diverse environments, including remote or rural areas. As the adoption of IoT technologies continues to accelerate in Vietnam, fueled by Industry 4.0 initiatives and smart city projects, the demand for edge computing solutions is expected to grow, driving innovation and enabling more efficient and resilient IoT deployments across various sectors.

### Emergence of 5G Networks to Accelerate IoT Adoption

The emergence of 5G networks is poised to accelerate the adoption and proliferation of Internet of Things (IoT) deployments in Vietnam. 5G technology offers significantly higher data speeds, lower latency, and greater network capacity compared to previous generations of wireless networks, making it well-suited for supporting the massive connectivity requirements of IoT devices. With 5G networks, IoT applications can benefit from faster data transmission, enabling real-time communication and seamless connectivity for mission-critical use cases such as autonomous vehicles, remote healthcare, and industrial automation. Moreover, the ultra-reliable and low-latency capabilities of 5G networks unlock new possibilities for innovative IoT applications that require high levels of responsiveness and reliability. For example, in manufacturing, 5G-enabled IoT solutions can support real-time monitoring and control of production processes, enabling agile and flexible manufacturing operations. Similarly, in smart cities, 5G networks can power advanced IoT applications such as smart traffic management, environmental monitoring, and public safety systems. As telecom operators in Vietnam roll out 5G infrastructure and expand coverage nationwide, the availability of high-speed, low-latency connectivity will catalyze the development and adoption of a wide range of IoT solutions, driving digital transformation and innovation across industries.

### Focus on Sustainability and Environmental Monitoring

Sustainability and environmental monitoring are emerging as key priorities driving IoT adoption in Vietnam. With growing awareness of environmental issues and climate change, there is increasing emphasis on leveraging IoT technologies to monitor and mitigate environmental impact across various sectors. IoT-enabled environmental monitoring solutions are being deployed to monitor air quality, water quality, soil health,



and biodiversity in real-time, providing valuable data for decision-making and policy formulation. For example, IoT sensors deployed in urban areas can measure air pollution levels and provide insights into sources of pollution, enabling authorities to take timely actions to improve air quality and public health. Similarly, in agriculture, IoT solutions are being used to monitor soil moisture levels, optimize irrigation schedules, and minimize water usage, promoting sustainable farming practices and conserving natural resources. Furthermore, IoT technologies are facilitating the transition towards renewable energy sources by enabling smarter energy management and grid optimization. As Vietnam seeks to achieve its sustainability goals and reduce its carbon footprint, the demand for IoT solutions for environmental monitoring and sustainability initiatives is expected to grow, driving innovation and investment in this burgeoning market segment.

## Segmental Insights

### Platform Insights

The Vietnam Internet of Things (IoT) market saw a prominent dominance by the Device Management segment, a trend anticipated to endure throughout the forecast period. The prevalence of Device Management in Vietnam's IoT landscape can be attributed to several pivotal factors. Firstly, as the number of connected devices continues to proliferate across industries such as manufacturing, healthcare, agriculture, and smart cities, effective management and control of these devices become paramount. Device Management platforms enable organizations to efficiently provision, monitor, update, and troubleshoot IoT devices, ensuring optimal performance and reliability. Moreover, with the complexity and diversity of IoT deployments increasing, particularly in large-scale industrial settings, the need for robust device management solutions becomes even more pronounced. These platforms facilitate seamless integration and interoperability among disparate devices and protocols, streamlining the deployment and management of IoT ecosystems. Additionally, stringent regulations and security concerns necessitate robust device management practices to safeguard against cyber threats and ensure data privacy and integrity. As Vietnam accelerates its digital transformation journey and embraces Industry 4.0 initiatives, the demand for comprehensive Device Management solutions is expected to escalate further. With ongoing advancements in device provisioning, firmware updates, remote diagnostics, and predictive maintenance capabilities, Device Management platforms are poised to play a pivotal role in driving the efficiency, reliability, and scalability of IoT deployments across diverse verticals. Thus, amidst the triad of IoT platforms, it is the Device Management segment that stands out as the linchpin of Vietnam's IoT ecosystem,

poised to maintain its dominance and shape the trajectory of the country's connected future.

### Application Insights

The Vietnam Internet of Things (IoT) market witnessed a significant dominance by the Building & Home Automation segment, a trend expected to persist throughout the forecast period. Building & Home Automation emerged as the frontrunner in Vietnam's IoT landscape due to several key factors. Firstly, the burgeoning urbanization and modernization drive in Vietnam have fueled a rapid expansion in the construction sector, leading to an increased demand for smart building solutions. These solutions offer enhanced energy efficiency, security, and convenience, aligning perfectly with the evolving lifestyle preferences of urban dwellers. Additionally, the growing awareness among consumers regarding the benefits of home automation, such as remote monitoring and control of appliances, lighting, and security systems, has further propelled the adoption of IoT technologies in residential settings. Furthermore, government initiatives aimed at promoting sustainable development and the integration of IoT in building infrastructure have spurred investments in smart home solutions across the country. As Vietnam continues its trajectory towards digital transformation, the Building & Home Automation segment is poised to capitalize on these trends, maintaining its dominance in the IoT market. With ongoing advancements in sensor technology, connectivity, and data analytics, the segment is expected to witness continued innovation, driving further uptake among residential and commercial consumers alike. Thus, amidst the diverse array of IoT applications, it is the Building & Home Automation segment that stands out as the cornerstone of Vietnam's IoT ecosystem, poised to shape the country's future urban landscapes and redefine the concept of modern living.

### Regional Insights

Southern Vietnam emerged as the dominant region in the Vietnam Internet of Things (IoT) market, a trend likely to persist throughout the forecast period. Several factors contribute to the dominance of Southern Vietnam in the IoT landscape. Firstly, Southern Vietnam, encompassing major cities like Ho Chi Minh City and key economic hubs, has been at the forefront of the country's industrialization and urbanization drive. This region hosts a thriving ecosystem of businesses, research institutions, and technology hubs, fostering innovation and adoption of IoT solutions across various sectors. Moreover, the presence of robust infrastructure, including advanced telecommunications networks and modern transportation systems, provides a conducive environment for IoT deployments.

Southern Vietnam serves as a focal point for foreign investment and international collaborations, attracting leading IoT vendors and solution providers to establish their presence in the region. As a result, Southern Vietnam has witnessed extensive implementation of IoT applications in industries such as manufacturing, logistics, healthcare, and smart cities, driving market growth and dominance. Looking ahead, the region is poised to maintain its leadership position in the Vietnam IoT market, fueled by ongoing digital transformation initiatives, government support, and a conducive business environment. With Southern Vietnam serving as the epicenter of economic activity and technological innovation, it is expected to continue shaping the trajectory of the country's IoT landscape, driving innovation, and fostering sustainable growth across industries. Thus, amidst the regional dynamics of Vietnam's IoT market, it is Southern Vietnam that stands out as the primary driver of adoption and expansion, poised to maintain its dominance in the years to come.

### Key Market Players

Google LLC

IBM Corporation

Microsoft Corporation

Intel Corporation

Cisco Systems, Inc.

Huawei Technologies Co., Ltd.

Amazon Inc.

SAP SE

Siemens AG

Oracle Corporation

### Report Scope:

In this report, the Vietnam Internet of Things Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Vietnam Internet of Things Market, By Component:

Software

Hardware

Service

Vietnam Internet of Things Market, By Platform:

Network Management

Application Management

Device Management

Vietnam Internet of Things Market, By Application:

Consumer Electronics

Smart Mobility & Transportation

Building & Home Automation

Connected Logistics

Smart Retail

Others

Vietnam Internet of Things Market, By Region:

Southern Vietnam

Northern Vietnam

## Central Vietnam

### Competitive Landscape

**Company Profiles:** Detailed analysis of the major companies present in the Vietnam Internet of Things Market.

### Available Customizations:

Vietnam Internet of Things 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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