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Global Narrowband Internet-of-Things (IoT) Chipset Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Narrowband Internet-of-Things (IoT) Chipset market size is expected to reach $ 53010 million by 2032, rising at a market growth of 24.1% CAGR during the forecast period (2026-2032).

Narrowband Internet?of?Things (NB?IoT) chipsets refer to integrated circuit chips specifically designed for low-power wide-area network (LPWAN) communication standards. These chipsets provide connectivity capabilities for IoT end devices based on cellular networks. NB?IoT technology, standardized by 3GPP on the basis of LTE, utilizes extremely narrow bandwidth?typically around 200 kHz?to achieve ultra-low power consumption, wide coverage, massive connectivity, and low-cost communication. It is a core member of the LTE IoT family. NB?IoT chipsets usually integrate modems, baseband processing, RF transceivers, and protocol stacks, serving as the essential hardware for connecting tens of billions of low-data-rate IoT devices. The design logic of NB?IoT chipsets is driven by the characteristics of IoT technology, meeting stringent requirements for battery life, deep signal penetration, and network reliability. They are widely applied in smart cities, urban infrastructure, industrial sensing, energy metering, agriculture monitoring, and asset tracking. Chip architectures range from basic modem ICs to system-on-chip (SoC) designs, enabling low-complexity, high-density device connectivity. Standards for NB?IoT were formalized in 3GPP Release 13, and the technology continues to evolve alongside LTE while preparing for integration with 5G networks to enhance efficiency and coverage. As a critical hardware platform connecting the physical world to cloud-based services, NB?IoT chipsets form a foundational segment of the global IoT industry and are increasingly valuable due to government policies, low-power connectivity demand, and ongoing global communication infrastructure development.

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Market Development Opportunities & Main Driving Factors

The NB?IoT chipset industry is currently experiencing significant growth opportunities, driven by the maturity of global IoT technology and widespread deployment of cellular networks. Firstly, the continued evolution of 4G/LTE networks and broad coverage by operators provide a natural foundation for NB?IoT, enabling low-cost, reliable connectivity for IoT endpoints, especially in deep indoor or underground locations. Secondly, government policies and regulations in major economies continue to stimulate the market; for example, China?s official notice on promoting mobile IoT emphasizes enhancing supply capacity, technological innovation, and industry integration, creating a supportive policy environment for NB?IoT chip development. Additionally, the expansion of smart cities, smart energy management, and industrial digitalization further drives demand, as NB?IoT chipsets are central to enabling large-scale sensing and wireless connectivity. Technological innovation is another key factor: improvements in semiconductor manufacturing, ultra-low-power design, and higher integration levels make NB?IoT chipsets more suitable for extreme low-power and wide-coverage scenarios. Furthermore, the continued refinement of NB?IoT standards by 3GPP ensures global scale deployment, offering long-term technical and regulatory support for the industry.

Market Challenges, Risks, & Restraints

Despite significant opportunities, the NB?IoT chipset industry faces several notable challenges and risks. Firstly, differences in communication standards adoption across regions, such as some North American operators shifting focus to LTE-M or 5G RedCap, pose a substitution risk for standalone NB?IoT technology. In developed economies, the commercial value of NB?IoT can be relatively limited, prompting some operators to reduce investment or adjust strategies. Secondly, chipset manufacturers must manage technical complexity related to fragmented standards, diverse spectrum allocation, and interoperability challenges, all of which increase R&D and testing costs while complicating global adaptation. Additionally, the low-cost nature of NB?IoT chipsets implies relatively narrow profit margins, raising concerns about maintaining profitability across the supply chain. Upstream supply constraints, semiconductor market cycles, and geopolitical factors can also affect chip availability and cross-border collaboration. Finally, competition from alternative low-power IoT technologies such as LoRa and Cat-1 amplifies pressure, requiring manufacturers and ecosystem players to ensure that NB?IoT chipsets remain technically relevant and commercially attractive.

Downstream Demand Trends

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Demand for NB?IoT chipsets is increasingly expanding from traditional industrial and utility sectors to a broader array of industries. Traditional applications in public utilities, such as smart meters for electricity, water, and gas, as well as urban infrastructure monitoring, continue to provide stable demand due to the chipsets? low power consumption and deep coverage advantages. Simultaneously, emerging applications in smart cities and intelligent manufacturing?including asset tracking, industrial equipment monitoring, environmental sensing, and agricultural monitoring?are rapidly absorbing NB?IoT connectivity. Consumer IoT devices such as smart appliances, remote health monitoring devices, smart parking, and security systems also expand the technology?s use cases, leveraging long battery life and low maintenance costs. Enterprises increasingly recognize the value of NB?IoT chipsets for large-scale telemetry and data collection, particularly in cost-sensitive, high-density deployment scenarios. As demand grows, manufacturers must provide higher-value solutions in multi-mode connectivity, cloud integration, and device interoperability to meet evolving requirements.

Regional Trends

In regional terms, China remains the global leader in NB?IoT chipset deployment, driven by policy support and large-scale network deployment. Collaboration between Chinese operators and government initiatives has enabled widespread commercial network coverage and ecosystem development, allowing NB?IoT chipsets to achieve broad adoption across urban management, infrastructure, and social services. Other Asian markets, including Southeast Asia and India, show strong adoption potential due to rapid 4G/5G infrastructure rollout. In Europe, although some operators favor LTE-M, NB?IoT maintains steady applications in smart city infrastructure and environmental monitoring within the policy and standards framework. In North America, several operators have gradually shifted resources away from NB?IoT toward alternative cellular IoT technologies, yet niche industry applications and technical trials continue to sustain demand. Emerging markets in Latin America and Africa consider NB?IoT a cost-effective solution for rural, agricultural, and resource-management applications, with network construction and government initiatives driving future potential. Regional differences in technology choice, policy support, and ecosystem maturity are shaping a layered and diverse global development landscape.

This report studies the global Narrowband Internet-of-Things (IoT) Chipset production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for

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Narrowband Internet-of-Things (IoT) Chipset and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Narrowband Internet-of-Things (IoT) Chipset that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Narrowband Internet-of-Things (IoT) Chipset total production and demand, 2021-2032, (K Pcs)
Global Narrowband Internet-of-Things (IoT) Chipset total production value, 2021-2032, (USD Million)
Global Narrowband Internet-of-Things (IoT) Chipset production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)
Global Narrowband Internet-of-Things (IoT) Chipset consumption by region & country, CAGR, 2021-2032 & (K Pcs)
U.S. VS China: Narrowband Internet-of-Things (IoT) Chipset domestic production, consumption, key domestic manufacturers and share
Global Narrowband Internet-of-Things (IoT) Chipset production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)
Global Narrowband Internet-of-Things (IoT) Chipset production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)
Global Narrowband Internet-of-Things (IoT) Chipset production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Narrowband Internet-of-Things (IoT) Chipset market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ASR Microelectronics, Altair Semiconductor, Commsolid, GCT Semiconductor, Huawei, Intel, MediaTek, Nordic Semiconductor, Qualcomm, Quectel, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Narrowband Internet-of-Things (IoT) Chipset market

Detailed Segmentation:

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Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Pcs) and average price (US$/Pcs) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Narrowband Internet-of-Things (IoT) Chipset Market, By Region:

- United States
- China
- Europe
- Japan
- South Korea
- ASEAN
- India
- Rest of World

Global Narrowband Internet-of-Things (IoT) Chipset Market, Segmentation by Type:

- Modem Chipset
- Microcontroller Unit (MCU)
- System-on-Chip (SoC)
- RF Front-End Chip

Global Narrowband Internet-of-Things (IoT) Chipset Market, Segmentation by Network Protocol:

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NB?IoT

LTE?M

eMTC

5G?IoT

Proprietary LPWAN

Global Narrowband Internet-of-Things (IoT) Chipset Market, Segmentation by Power Consumption Class:

Ultra-Low Power

Low Power

Medium Power

High Power

Global Narrowband Internet-of-Things (IoT) Chipset Market, Segmentation by Form Factor:

Chip on Board (COB)

Chip Scale Package (CSP)

Module Integrated Chip

Multi-Chip Package (MCP)

Global Narrowband Internet-of-Things (IoT) Chipset Market, Segmentation by Application:

Consumer Electronics

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Cities infrastructure

Agriculture

Industrial IoT

Healthcare

Logistics Management

Companies Profiled:

ASR Microelectronics

Altair Semiconductor

Commsolid

GCT Semiconductor

Huawei

Intel

MediaTek

Nordic Semiconductor

Qualcomm

Quectel

Riot Micro

Samsung

Sequans

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Key Questions Answered:
1. How big is the global Narrowband Internet-of-Things (IoT) Chipset market?
2. What is the demand of the global Narrowband Internet-of-Things (IoT) Chipset market?
3. What is the year over year growth of the global Narrowband Internet-of-Things (IoT) Chipset market?
4. What is the production and production value of the global Narrowband Internet-of-Things (IoT) Chipset market?
5. Who are the key producers in the global Narrowband Internet-of-Things (IoT) Chipset market?
6. What are the growth factors driving the market demand?

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Contents

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3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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4 UNITED STATES VS CHINA VS REST OF THE WORLD

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10 COMPANY PROFILES

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11 INDUSTRY CHAIN ANALYSIS

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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