+357 96 030922
info@marketpublishers.com

Narrowband IoT Chipset Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Device Type (Tracker, Smart Metering, Wearable), By Deployment (Stand Alone, Guard Band, In Band), By Vertical (IT, Manufacturing, Agriculture, Healthcare, Automotive, Transportation), By Region & Competition, 2021-2031F

https://marketpublishers.com/r/N06999F850D2EN.html
Date: January 2026
Pages: 185
Price: US$ 4,500.00 (Single User License)
ID: N06999F850D2EN

Abstracts

The Global Narrowband IoT Chipset Market is projected to expand significantly, rising from USD 3.04 Billion in 2025 to USD 18.54 Billion by 2031, representing a compound annual growth rate of 35.17%. This market comprises specialized semiconductor solutions designed to facilitate cellular communication for devices characterized by low data usage and long operational lifespans. Growth is largely propelled by the requirement for superior energy efficiency, enabling devices to run for over a decade on a single battery, alongside the necessity for deep signal penetration in difficult environments such as underground basements. These functional capabilities are essential for the widespread adoption of smart metering and industrial asset tracking, distinguishing them from fleeting consumer technology fads.

One significant obstacle potentially hindering market expansion is fierce competition from alternative wireless technologies that utilize unlicensed spectrums and provide lower initial deployment costs. According to the Global mobile Suppliers Association, 176 operators were actively investing in Narrowband IoT technology in 2024, with 132 having already launched commercial networks. This statistic underscores the strong commitment to infrastructure development within the ecosystem while simultaneously recognizing the competitive hurdles the technology must overcome to attain ubiquitous adoption.

+357 96 030922
info@marketpublishers.com

Market Driver

The extensive deployment of smart utility metering systems serves as a major driver for chipset adoption, with utility providers favoring cellular solutions that guarantee reliable data transmission from deep underground or enclosed areas. This specific use case necessitates the low-power consumption and high-penetration attributes of Narrowband IoT to track water and gas usage over operational periods exceeding a decade, effectively supplanting manual reading methods. This trend was validated in March 2024, when Smart Water Magazine reported that Vodafone Spain secured a ten-year deal to provide over 1 million NB-IoT smart water meters to digitize Aqualia's water cycle management, demonstrating how large-scale projects are modernizing utility grids and generating sustained volume for semiconductor producers.

Furthermore, the convergence with 5G and Massive Machine-Type Communications standards is transforming the market by expanding connectivity to non-terrestrial networks (NTN), allowing support for remote assets previously outside the range of cellular towers. This advancement enables chipsets to transition smoothly between terrestrial and satellite networks, a vital feature for logistics and agriculture in isolated areas. Highlighting this demand, Sateliot announced in an August 2024 press release that it had already contracted to connect over 8 million devices through its new 5G NB-IoT satellite constellation. This expansion is supported by a mature hardware ecosystem; the Global mobile Suppliers Association noted that in 2024, the number of devices supporting 3GPP IoT standards reached 982, providing a wide array of hardware choices for these sophisticated applications.

Market Challenge

The Global Narrowband IoT Chipset Market faces significant constraints due to strong competition from alternative wireless technologies that function on unlicensed spectrums. In contrast to Narrowband IoT, which depends on licensed cellular bands and involves recurring subscription fees to network operators, competing technologies permit businesses to establish private networks with considerably lower initial and ongoing costs. This financial benefit renders non-cellular options highly appealing for extensive deployments in cost-conscious industries like agriculture and logistics, thereby restricting the potential market reach for Narrowband IoT chipsets.

This competitive environment impedes growth by enabling these alternative ecosystems to establish themselves in critical industrial sectors before cellular solutions can secure

+357 96 030922
info@marketpublishers.com

a position. The scale of this obstacle is illustrated by the extensive adoption of non-cellular devices, which directly diminishes the demand for cellular-based silicon. For instance, the LoRa Alliance reported in 2024 that over 350 million LoRaWAN end nodes had been deployed worldwide. This substantial volume of connections outside the cellular framework indicates that unlicensed technologies have already secured a large portion of the low-power wide-area network market, compelling Narrowband IoT vendors to contend with a well-established and cost-efficient incumbent.

Market Trends

The widespread adoption of Dual-Mode LTE-M and NB-IoT System-on-Chips (SoCs) is unifying the cellular IoT sector by resolving the fragmentation caused by differing regional network standards. Device manufacturers are increasingly utilizing multi-mode silicon to develop single global stock-keeping units (SKUs) that function on both European NB-IoT and North American LTE-M infrastructures. This consolidation removes the requirement for region-specific hardware versions, significantly simplifying supply chain logistics and guaranteeing interoperability for assets traveling across borders. As noted in the 'Device Technology Trends Report 2025' by the Global Certification Forum in February 2025, over 88% of certified devices featured multiple radio technologies in 2024, underscoring the industry's shift toward versatile connectivity solutions that facilitate seamless international operation.

Simultaneously, the move toward Integrated SIM (iSIM) architecture is fundamentally transforming chipset design by embedding subscriber identity modules directly within the system-on-chip. This development eliminates the necessity for physical SIM cards or soldered eSIMs, liberating critical board space for compact sensors and lowering the overall Bill of Materials (BOM) for cost-sensitive tracking devices. This shift also improves power efficiency by removing the dedicated power rails needed for external SIM components. According to a January 2025 press release from Kigen regarding Nordic Semiconductor, the new nRF9151 System-in-Package delivers a 20 percent reduction in design size and 45 percent lower peak power consumption compared to earlier generations, an improvement driven largely by the integration of advanced iSIM capabilities.

Key Market Players

Huawei Technologies Co., Ltd.

Qualcomm Incorporated

+357 96 030922
info@marketpublishers.com

Intel Corporation

Nordic Semiconductor ASA

Samsung Electronics Co., Ltd.

MediaTek Inc.

u-blox Holding AG

Sequans Communications S.A.

Sierra Wireless, Inc.

Sanechips Technology Co., Ltd.

Report Scope

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

Narrowband IoT Chipset Market, By Device Type

Tracker

Smart Metering

Wearable

Narrowband IoT Chipset Market, By Deployment

Stand Alone

Guard Band

In Band

+357 96 030922
info@marketpublishers.com

Narrowband IoT Chipset Market, By Vertical

IT

Manufacturing

Agriculture

Healthcare

Automotive

Transportation

Narrowband IoT Chipset Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

+357 96 030922
info@marketpublishers.com

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Narrowband IoT Chipset Market.

Available Customizations:

Global Narrowband IoT Chipset Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

+357 96 030922
info@marketpublishers.com

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

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

6. NORTH AMERICA NARROWBAND IOT CHIPSET MARKET OUTLOOK

7. EUROPE NARROWBAND IOT CHIPSET MARKET OUTLOOK

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

8. ASIA PACIFIC NARROWBAND IOT CHIPSET MARKET OUTLOOK

+357 96 030922
info@marketpublishers.com

9. MIDDLE EAST & AFRICA NARROWBAND IOT CHIPSET MARKET OUTLOOK

+357 96 030922
info@marketpublishers.com

10. SOUTH AMERICA NARROWBAND IOT CHIPSET MARKET OUTLOOK

11. MARKET DYNAMICS

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Narrowband IoT Chipset Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Device Type (Tracker, Smart Metering, Wearable), By Deployment (Stand Alone, Guard Band, In Band), By Vertical (IT, Manufacturing, Agriculture, Healthcare, Automotive, Transportation), By Region & Competition, 2021-2031F

Product link: https://marketpublishers.com/r/N06999F850D2EN.html

Price: US$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/N06999F850D2EN.html