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Global Satellite Baseband Chip Market Growth 2026-2032

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Abstracts

The global Satellite Baseband Chip market size is predicted to grow from US$ 665 million in 2025 to US$ 3897 million in 2032; it is expected to grow at a CAGR of 26.8% from 2026 to 2032.

Satellite communication baseband chips are semiconductor devices that perform digital baseband processing, modulation and demodulation, synchronization, channel coding and decoding, Doppler compensation, physical-layer processing, protocol access and link control for satellite communication systems. They are used in satellite IoT devices, direct-to-device satellite phones, NTN-enabled cellular devices, VSAT terminals, mobility terminals, satellite gateways and spaceborne communication payloads. Product forms include NTN modem chips, satellite IoT SoCs, satellite modem ASICs, SDR baseband ASICs, digital beamforming/baseband processors and cellular-satellite multimode communication SoCs.

Satellite communication baseband chips are becoming a core semiconductor layer for direct-to-device satellite connectivity, satellite IoT, NTN-enabled cellular devices, VSAT terminals and future space-terrestrial integrated networks. Unlike GNSS positioning chips, which only receive navigation signals, satellite baseband chips support actual communication functions such as modulation and demodulation, channel coding, synchronization, Doppler compensation, protocol access, FEC and link management. Their strategic importance is increasing as satellite connectivity moves from proprietary terminals and specialized networks toward standardized 3GPP NTN, NB-IoT NTN, LTE-M NTN and NR-NTN architectures.

From the demand side, the market is being driven by three major application groups. The first is low-power satellite IoT, including asset tracking, smart metering,

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environmental monitoring, agriculture, maritime logistics and remote industrial telemetry. The second is direct-to-device connectivity for smartphones, wearables, vehicles and emergency communication devices. The third is broadband satellite communication, including VSAT terminals, mobility terminals, satellite gateways and spaceborne communication payloads. These use cases have very different technical requirements, which means the market is not a single homogeneous chip category. Low-power IoT chips prioritize energy efficiency, cost and long lifecycle; smartphone NTN modems prioritize integration with cellular basebands and operator ecosystems; broadband satellite ASICs prioritize throughput, waveform flexibility, beam processing and system performance.

The competitive landscape is led by companies with deep wireless communication, modem and satellite system capabilities. Qualcomm, MediaTek and Samsung are well positioned in mobile and cellular NTN because they already control key smartphone and cellular modem platforms. Sony Altair, u-blox, Nordic and Sequans are more focused on low-power cellular IoT and satellite IoT connectivity. SatixFy / MDA represents a different category, with stronger exposure to broadband satellite modem ASICs, DVB-S2X / RCS2, digital beamforming and space or gateway processing. Chinese players such as UNISOC, MLink, ASR Microelectronics and Eigencomm should be tracked as emerging or domestic-substitution candidates, but their publicly verifiable satellite baseband product evidence remains weaker than that of the global leading tier.

Technology barriers are high because satellite links create challenges that are more complex than ordinary terrestrial wireless links. Chip suppliers must handle long propagation delay, Doppler shift, weak signal conditions, strict power budgets, satellite frequency bands, antenna constraints, NTN protocol compliance and satellite network certification. For smartphone and wearable applications, the chip must also coexist with mainstream cellular connectivity in limited space and power envelopes. For satellite IoT, the challenge is to achieve reliable low-rate communication over long device lifetimes. For broadband satellite terminals and gateways, the challenge shifts toward high-throughput processing, waveform support, beam management and system-level integration.

Looking ahead, standardized NTN will gradually expand the addressable market for satellite baseband chips. In the near term, growth will come mainly from IoT-NTN, emergency messaging, satellite-enabled wearables, connected vehicles and early direct-to-device deployments. In the medium term, adoption will broaden as satellite operators, mobile operators, chipset vendors and device OEMs align around commercial NTN services. In the long term, 6G NTN and multi-orbit satellite-terrestrial networks could

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turn satellite baseband chips from a niche connectivity component into a mainstream access technology. The long-term winners will be suppliers that can combine modem IP, low-power design, protocol stack maturity, satellite network certification, RF integration and strong partnerships with module makers, device OEMs and satellite operators.

LP Information, Inc. (LPI) ' newest research report, the “Satellite Baseband Chip Industry Forecast” looks at past sales and reviews total world Satellite Baseband Chip sales in 2025, providing a comprehensive analysis by region and market sector of projected Satellite Baseband Chip sales for 2026 through 2032. With Satellite Baseband Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Satellite Baseband Chip industry.

This Insight Report provides a comprehensive analysis of the global Satellite Baseband Chip landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Satellite Baseband Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Satellite Baseband Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Satellite Baseband Chip and breaks down the forecast by Orbit / Network Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Satellite Baseband Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of Satellite Baseband Chip market by product type, application, key manufacturers and key regions and countries.

Segmentation by Orbit / Network Type:

GEO Satellite Communication Chips

LEO Satellite Communication Chips

MEO / Multi-orbit Communication Chips

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Terrestrial-Satellite Hybrid Chips

Segmentation by Technology Route:

3GPP IoT-NTN Baseband Chips

5G NR-NTN / Direct-to-Device Modems

Cellular-Satellite Multimode IoT SoCs

Broadband Satellite Modem ASICs

Spaceborne Communication Processing ASICs

Proprietary Satellite IoT Baseband Chips

Segmentation by Frequency Band:

L-band Satellite Baseband Chips

S-band Satellite Baseband Chips

Ku-band Satellite Baseband Chips

Ka-band Satellite Baseband Chips

C / X-band Satellite Baseband Chips

Segmentation by Application:

Defense & Government

Aviation

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Transportation & Logistics

Consumer Electronics

Heavy Industries (Construction & Mining)

Energy & Utilities

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

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- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

- Qualcomm
- u-blox AG
- Altair
- Samsung
- SatixFy Communications
- MediaTek

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Nordic Semiconductor

Key Questions Addressed in this Report

What is the 10-year outlook for the global Satellite Baseband Chip market?

What factors are driving Satellite Baseband Chip market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Satellite Baseband Chip market opportunities vary by end market size?

How does Satellite Baseband Chip break out by Orbit / Network Type, by Application?

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