

Global Satellite Baseband Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Satellite Baseband Chip market size is expected to reach \$ 3803 million by 2032, rising at a market growth of 25.2% CAGR during the forecast period (2026-2032).

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, 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 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.

This report studies the global Satellite Baseband Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Satellite Baseband Chip 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 Satellite Baseband Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Satellite Baseband Chip total production and demand, 2021-2032, (Million Units)

Global Satellite Baseband Chip total production value, 2021-2032, (USD Million)

Global Satellite Baseband Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Satellite Baseband Chip consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Satellite Baseband Chip domestic production, consumption, key domestic manufacturers and share

Global Satellite Baseband Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Satellite Baseband Chip production by Orbit / Network Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Satellite Baseband Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Satellite Baseband Chip 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 Qualcomm, u-blox AG, Altair, Samsung, SatixFy Communications, MediaTek, Nordic Semiconductor, 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 Satellite Baseband Chip market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Orbit / Network 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 Satellite Baseband Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Satellite Baseband Chip Market, Segmentation by Orbit / Network Type:

GEO Satellite Communication Chips

LEO Satellite Communication Chips

MEO / Multi-orbit Communication Chips

Terrestrial-Satellite Hybrid Chips

Global Satellite Baseband Chip Market, 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

Global Satellite Baseband Chip Market, 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

Global Satellite Baseband Chip Market, Segmentation by Application:

Defense & Government

Aviation

Transportation & Logistics

Consumer Electronics

Heavy Industries (Construction & Mining)

Energy & Utilities

Others

Companies Profiled:

Qualcomm

u-blox AG

Altair

Samsung

SatixFy Communications

MediaTek

Nordic Semiconductor

Key Questions Answered:

1. How big is the global Satellite Baseband Chip market?
2. What is the demand of the global Satellite Baseband Chip market?
3. What is the year over year growth of the global Satellite Baseband Chip market?
4. What is the production and production value of the global Satellite Baseband Chip market?
5. Who are the key producers in the global Satellite Baseband Chip market?
6. What are the growth factors driving the market demand?

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