

Global Satellite Baseband Chip Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Satellite Baseband Chip market size was valued at US\$ 700 million in 2025 and is forecast to a readjusted size of US\$ 3803 million by 2032 with a CAGR of 25.2% during review period.

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 is a detailed and comprehensive analysis for global Satellite Baseband Chip market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Orbit / Network Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Satellite Baseband Chip market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Satellite Baseband Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Satellite Baseband Chip market size and forecasts, by Orbit / Network Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Satellite Baseband Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Satellite Baseband Chip

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Satellite Baseband Chip market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Satellite Baseband Chip market is split by Orbit / Network Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Orbit / Network Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Orbit / Network Type

GEO Satellite Communication Chips

LEO Satellite Communication Chips

MEO / Multi-orbit Communication Chips

Terrestrial-Satellite Hybrid Chips

Market segment 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

Market segment 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

Market segment by Application

Defense & Government

Aviation

Transportation & Logistics

Consumer Electronics

Heavy Industries (Construction & Mining)

Energy & Utilities

Others

Major players covered

Qualcomm

u-blox AG

Altair

Samsung

SatixFy Communications

MediaTek

Nordic Semiconductor

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Satellite Baseband Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Satellite Baseband Chip, with price, sales quantity, revenue, and global market share of Satellite Baseband Chip from 2021 to 2026.

Chapter 3, the Satellite Baseband Chip competitive situation, sales quantity, revenue,

and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Satellite Baseband Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Orbit / Network Type and by Application, with sales market share and growth rate by Orbit / Network Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Satellite Baseband Chip market forecast, by regions, by Orbit / Network Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Satellite Baseband Chip.

Chapter 14 and 15, to describe Satellite Baseband Chip sales channel, distributors, customers, research findings and conclusion.

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