

Global Spaceborne Multibeam Phased Array Antennas Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Spaceborne Multibeam Phased Array Antennas market size is expected to reach \$ 5399 million by 2032, rising at a market growth of 10.6% CAGR during the forecast period (2026-2032).

In 2025, global sales of Spaceborne Multibeam Phased Array Antennas reached approximately 3,640 units, with an average market price of about USD 660,000 unit, an annual production capacity of roughly 3,700 units, and an industry-average gross margin of approximately 45%.

A Spaceborne Multibeam Phased Array Antenna is an onboard radio-frequency antenna subsystem installed on a communications, navigation, Earth-observation, data-relay or defence spacecraft and designed to generate two or more fixed, switched, hopped, independently steerable or dynamically shaped beams during the same mission period. Principal architectures include multi-feed reflector antennas, array-fed or imaging reflectors, direct-radiating active phased arrays, analogue, digital and hybrid beamforming arrays, and active lens or transmitarray configurations. A complete system may comprise a deployable reflector or radiating aperture, feed horns or antenna elements, beamforming networks, transmit-and-receive channels, power amplifiers, low-noise front ends, array controllers, calibration electronics, thermal-control provisions and deployment mechanisms. Important specifications include operating frequency, effective aperture, gain, beam count, beam width, scan range, EIRP, G/T, polarization, sidelobe performance, cross-polarization isolation, beam-switching speed, RF power, mass, power consumption, thermal stability and space-environment reliability. By enabling spatial frequency reuse, fine-grained coverage, adaptive capacity allocation, simultaneous service to multiple geographic cells and enhanced interference mitigation, these systems increase spacecraft throughput, coverage efficiency and mission

flexibility. Major applications include high-throughput satellite communications, proliferated low-Earth-orbit broadband constellations, direct-to-device mobile services, protected military communications, navigation and augmentation missions, synthetic-aperture-radar imaging, and high-rate inter-satellite or space-to-ground data transmission.

Spaceborne Multibeam Phased Array Antennas are not merely another category of satellite antenna; they are a principal determinant of spatial frequency reuse, coverage granularity, payload flexibility and usable spacecraft throughput. Conventional high-throughput satellites divide their service areas into multiple spot beams through reflector-and-feed architectures and reuse frequencies and polarizations across geographically separated cells. Newer systems extend this concept by allowing beam direction, bandwidth, power allocation and coverage shape to be modified after launch. Consequently, the economic value of the antenna is shifting from reflector size and passive RF performance alone toward the coordinated performance of active apertures, beamforming networks, calibration electronics, thermal management and software control.

The supply structure consists of three overlapping groups: established satellite primes, independent antenna and payload specialists, and captive constellation manufacturers. Airbus, Thales, Boeing, Lockheed Martin and CAST combine spacecraft-level engineering, payload integration, space qualification and mission assurance, giving them an advantage in large commercial and protected-government programmes. MDA occupies a distinctive position as a major independent supplier of reflector systems, direct-radiating arrays and digitally enabled payload products. Companies such as CesiumAstro, SWISSto12, ThinKom and Tron Future are entering through standardized active arrays, small-satellite compatibility, additive RF manufacturing or digitally formed SAR beams.

This report studies the global Spaceborne Multibeam Phased Array Antennas production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Spaceborne Multibeam Phased Array Antennas 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 Spaceborne Multibeam Phased Array Antennas that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Spaceborne Multibeam Phased Array Antennas total production and demand, 2021-2032, (Units)

Global Spaceborne Multibeam Phased Array Antennas total production value, 2021-2032, (USD Million)

Global Spaceborne Multibeam Phased Array Antennas production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Spaceborne Multibeam Phased Array Antennas consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Spaceborne Multibeam Phased Array Antennas domestic production, consumption, key domestic manufacturers and share

Global Spaceborne Multibeam Phased Array Antennas production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Spaceborne Multibeam Phased Array Antennas production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Spaceborne Multibeam Phased Array Antennas production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Spaceborne Multibeam Phased Array Antennas 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 Space Exploration Technologies Corp., MDA Space Ltd., Airbus SE, China Academy of Space Technology, Thales S.A., AST SpaceMobile, Inc., Amazon.com, Inc., The Boeing Company, Lockheed Martin Corporation, Indian Space Research Organisation, 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 Spaceborne Multibeam Phased Array Antennas market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) 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 Spaceborne Multibeam Phased Array Antennas Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Spaceborne Multibeam Phased Array Antennas Market, Segmentation by Type:

Ku Band

Ka Band

Q/V Band

Others

Global Spaceborne Multibeam Phased Array Antennas Market, Segmentation by Beamforming:

Digital Beamforming

Analog Beamforming

Global Spaceborne Multibeam Phased Array Antennas Market, Segmentation by Beam:

Fixed Multi-Spot Beams

Beam-Hopping Beams

Global Spaceborne Multibeam Phased Array Antennas Market, Segmentation by Application:

Radar

Satellite Communications

5G Networks

Companies Profiled:

Space Exploration Technologies Corp.

MDA Space Ltd.

Airbus SE

China Academy of Space Technology

Thales S.A.

AST SpaceMobile, Inc.

Amazon.com, Inc.

The Boeing Company

Lockheed Martin Corporation

Indian Space Research Organisation

Northrop Grumman Corporation

GalaxySpace

China Electronics Technology Group Corporation

NEC Corporation

CesiumAstro Inc.

Israel Aerospace Industries Ltd.

L3Harris Technologies, Inc.

SWISSto12 SA

ThinKom Solutions, Inc.

LIG Nex1 Co., Ltd.

Key Questions Answered:

1. How big is the global Spaceborne Multibeam Phased Array Antennas market?
2. What is the demand of the global Spaceborne Multibeam Phased Array Antennas market?
3. What is the year over year growth of the global Spaceborne Multibeam Phased Array Antennas market?
4. What is the production and production value of the global Spaceborne Multibeam Phased Array Antennas market?
5. Who are the key producers in the global Spaceborne Multibeam Phased Array Antennas market?
6. What are the growth factors driving the market demand?

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