

Global Satellite Communications Phased Array Beamforming ICs Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Satellite Communications Phased Array Beamforming ICs market size is expected to reach \$ 1132 million by 2032, rising at a market growth of 11.1% CAGR during the forecast period (2026-2032).

In 2025, global shipments of Satellite Communications Phased Array Beamforming ICs reached approximately 3,050 million units, with an average selling price of around US\$0.17 per unit. Satellite Communications Phased Array Beamforming ICs are RF and millimeter-wave integrated circuits used in satellite communications phased array antennas, LEO satellite user terminals, airborne satellite communications terminals, maritime satellite communications terminals, vehicle-mounted satellite communications terminals, and spaceborne communications payloads. These products mainly include transmit beamforming ICs, receive beamforming ICs, bidirectional beamforming ICs, phased array T/R ICs, and digital beamforming ASICs. Through multi-channel phase control, amplitude control, gain adjustment, transmit and receive chain control, beam scanning, beam tracking, and multibeam management, these ICs enable satellite communications terminals and spaceborne payloads to achieve electronic beam steering, fast satellite acquisition, stable link maintenance, and multi-satellite switching without mechanical steering. They are mainly used in LEO satellite internet, fixed satellite communications terminals, mobile satellite communications terminals, aviation and maritime satcom-on-the-move terminals, and spaceborne multibeam communications payloads.

The growth of the Satellite Communications Phased Array Beamforming ICs market is mainly driven by the continued ramp-up of LEO satellite internet user terminals, the shift toward phased array terminals led by large-scale constellations such as Starlink, the

deployment of Amazon Kuiper and other LEO constellations, rising demand for aviation and maritime satcom-on-the-move terminals, broader adoption of vehicle-mounted and portable satellite communications terminals, upgrades in direct-to-device satellite communications and multibeam payloads, the replacement of mechanically steered antennas with electronically steered arrays, increasing demand for high-throughput Ku-band and Ka-band communications, localization of satellite internet supply chains, and higher RF and millimeter-wave chip integration. As satellite communications terminals move toward lower cost, miniaturization, mass production, and multi-orbit compatibility, beamforming ICs are becoming increasingly important for reducing terminal size, improving link stability, supporting fast beam switching, and enabling stronger multi-satellite connectivity.

This report studies the global Satellite Communications Phased Array Beamforming ICs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Satellite Communications Phased Array Beamforming ICs 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 Communications Phased Array Beamforming ICs that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Satellite Communications Phased Array Beamforming ICs total production and demand, 2021-2032, (K Units)

Global Satellite Communications Phased Array Beamforming ICs total production value, 2021-2032, (USD Million)

Global Satellite Communications Phased Array Beamforming ICs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Satellite Communications Phased Array Beamforming ICs consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Satellite Communications Phased Array Beamforming ICs domestic production, consumption, key domestic manufacturers and share

Global Satellite Communications Phased Array Beamforming ICs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Satellite Communications Phased Array Beamforming ICs production by Type,

production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Satellite Communications Phased Array Beamforming ICs production by
Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Satellite Communications Phased Array Beamforming ICs 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 pSemi Corporation, RFcore Co., Ltd., MACOM Technology Solutions Holdings, Inc., CETC Chips Technology Inc., Chengdu T-ray Technology Co., Ltd., Nanjing Guobo Electronics Co., Ltd., C-COM Satellite Systems Inc., TMY Technology Inc., Altum RF, NXP Semiconductors N.V., 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 Communications Phased Array Beamforming ICs market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Satellite Communications Phased Array Beamforming ICs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Satellite Communications Phased Array Beamforming ICs Market, Segmentation by Type:

Transmit Beamforming IC

Receive Beamforming IC

Bidirectional Beamforming IC

Digital Beamforming ASIC

Other

Global Satellite Communications Phased Array Beamforming ICs Market, Segmentation by Operating Frequency Range:

8 GHz To Below 18 GHz Products

17 GHz To Below 23 GHz Products

27 GHz To Below 31 GHz Products

Other

Global Satellite Communications Phased Array Beamforming ICs Market, Segmentation by Channel Count:

4-Channel Products

8-Channel Products

16-Channel Products

32-Element Digital Beamforming Products

Other

Global Satellite Communications Phased Array Beamforming ICs Market, Segmentation by Application:

Ground Based Satellite User Terminal Arrays

Mobile Satellite Terminal Arrays

Spaceborne Satellite Payload Arrays

Other

Companies Profiled:

pSemi Corporation

RFcore Co., Ltd.

MACOM Technology Solutions Holdings, Inc.

CETC Chips Technology Inc.

Chengdu T-ray Technology Co., Ltd.

Nanjing Guobo Electronics Co., Ltd.

C-COM Satellite Systems Inc.

TMY Technology Inc.

Altum RF

NXP Semiconductors N.V.

NEC Corporation

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Satellite Communications Phased Array Beamforming ICs Introduction
- 1.2 World Satellite Communications Phased Array Beamforming ICs Supply & Forecast
 - 1.2.1 World Satellite Communications Phased Array Beamforming ICs Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Satellite Communications Phased Array Beamforming ICs Production (2021-2032)
 - 1.2.3 World Satellite Communications Phased Array Beamforming ICs Pricing Trends (2021-2032)
- 1.3 World Satellite Communications Phased Array Beamforming ICs Production by Region (Based on Production Site)
 - 1.3.1 World Satellite Communications Phased Array Beamforming ICs Production Value by Region (2021-2032)
 - 1.3.2 World Satellite Communications Phased Array Beamforming ICs Production by Region (2021-2032)
 - 1.3.3 World Satellite Communications Phased Array Beamforming ICs Average Price by Region (2021-2032)
 - 1.3.4 North America Satellite Communications Phased Array Beamforming ICs Production (2021-2032)
 - 1.3.5 Europe Satellite Communications Phased Array Beamforming ICs Production (2021-2032)
 - 1.3.6 China Satellite Communications Phased Array Beamforming ICs Production (2021-2032)
 - 1.3.7 Japan Satellite Communications Phased Array Beamforming ICs Production (2021-2032)
 - 1.3.8 South Korea Satellite Communications Phased Array Beamforming ICs Production (2021-2032)
 - 1.3.9 Southeast Asia Satellite Communications Phased Array Beamforming ICs Production (2021-2032)
 - 1.3.10 China Taiwan Satellite Communications Phased Array Beamforming ICs Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Satellite Communications Phased Array Beamforming ICs Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Satellite Communications Phased Array Beamforming ICs Major Market Trends

2 DEMAND SUMMARY

2.1 World Satellite Communications Phased Array Beamforming ICs Demand (2021-2032)

2.2 World Satellite Communications Phased Array Beamforming ICs Consumption by Region

2.2.1 World Satellite Communications Phased Array Beamforming ICs Consumption by Region (2021-2026)

2.2.2 World Satellite Communications Phased Array Beamforming ICs Consumption Forecast by Region (2027-2032)

2.3 United States Satellite Communications Phased Array Beamforming ICs Consumption (2021-2032)

2.4 China Satellite Communications Phased Array Beamforming ICs Consumption (2021-2032)

2.5 Europe Satellite Communications Phased Array Beamforming ICs Consumption (2021-2032)

2.6 Japan Satellite Communications Phased Array Beamforming ICs Consumption (2021-2032)

2.7 South Korea Satellite Communications Phased Array Beamforming ICs Consumption (2021-2032)

2.8 ASEAN Satellite Communications Phased Array Beamforming ICs Consumption (2021-2032)

2.9 India Satellite Communications Phased Array Beamforming ICs Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Satellite Communications Phased Array Beamforming ICs Production Value by Manufacturer (2021-2026)

3.2 World Satellite Communications Phased Array Beamforming ICs Production by Manufacturer (2021-2026)

3.3 World Satellite Communications Phased Array Beamforming ICs Average Price by Manufacturer (2021-2026)

3.4 Satellite Communications Phased Array Beamforming ICs Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Satellite Communications Phased Array Beamforming ICs Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Satellite Communications Phased Array

Beamforming ICs in 2025

3.5.3 Global Concentration Ratios (CR8) for Satellite Communications Phased Array Beamforming ICs in 2025

3.6 Satellite Communications Phased Array Beamforming ICs Market: Overall Company Footprint Analysis

3.6.1 Satellite Communications Phased Array Beamforming ICs Market: Region Footprint

3.6.2 Satellite Communications Phased Array Beamforming ICs Market: Company Product Type Footprint

3.6.3 Satellite Communications Phased Array Beamforming ICs Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Satellite Communications Phased Array Beamforming ICs Production Value Comparison

4.1.1 United States VS China: Satellite Communications Phased Array Beamforming ICs Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Satellite Communications Phased Array Beamforming ICs Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Satellite Communications Phased Array Beamforming ICs Production Comparison

4.2.1 United States VS China: Satellite Communications Phased Array Beamforming ICs Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Satellite Communications Phased Array Beamforming ICs Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Satellite Communications Phased Array Beamforming ICs Consumption Comparison

4.3.1 United States VS China: Satellite Communications Phased Array Beamforming ICs Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Satellite Communications Phased Array Beamforming ICs Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Satellite Communications Phased Array Beamforming ICs

Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Satellite Communications Phased Array Beamforming ICs Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production Value (2021-2026)

4.4.3 United States Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production (2021-2026)

4.5 China Based Satellite Communications Phased Array Beamforming ICs Manufacturers and Market Share

4.5.1 China Based Satellite Communications Phased Array Beamforming ICs Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production Value (2021-2026)

4.5.3 China Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production (2021-2026)

4.6 Rest of World Based Satellite Communications Phased Array Beamforming ICs Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Satellite Communications Phased Array Beamforming ICs Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Satellite Communications Phased Array Beamforming ICs Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Transmit Beamforming IC

5.2.2 Receive Beamforming IC

5.2.3 Bidirectional Beamforming IC

5.2.4 Digital Beamforming ASIC

5.2.5 Other

5.3 Market Segment by Type

5.3.1 World Satellite Communications Phased Array Beamforming ICs Production by Type (2021-2032)

5.3.2 World Satellite Communications Phased Array Beamforming ICs Production Value by Type (2021-2032)

5.3.3 World Satellite Communications Phased Array Beamforming ICs Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY OPERATING FEQUANCY RANGE

6.1 World Satellite Communications Phased Array Beamforming ICs Market Size Overview by Operating Fequancy Range: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Operating Fequancy Range

6.2.1 8 GHz To Below 18 GHz Products

6.2.2 17 GHz To Below 23 GHz Products

6.2.3 27 GHz To Below 31 GHz Products

6.2.4 Other

6.3 Market Segment by Operating Fequancy Range

6.3.1 World Satellite Communications Phased Array Beamforming ICs Production by Operating Fequancy Range (2021-2032)

6.3.2 World Satellite Communications Phased Array Beamforming ICs Production Value by Operating Fequancy Range (2021-2032)

6.3.3 World Satellite Communications Phased Array Beamforming ICs Average Price by Operating Fequancy Range (2021-2032)

7 MARKET ANALYSIS BY CHANNEL COUNT

7.1 World Satellite Communications Phased Array Beamforming ICs Market Size Overview by Channel Count: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Channel Count

7.2.1 4-Channel Products

7.2.2 8-Channel Products

7.2.3 16-Channel Products

7.2.4 32-Element Digital Beamforming Products

7.2.5 Other

7.3 Market Segment by Channel Count

7.3.1 World Satellite Communications Phased Array Beamforming ICs Production by Channel Count (2021-2032)

7.3.2 World Satellite Communications Phased Array Beamforming ICs Production Value by Channel Count (2021-2032)

7.3.3 World Satellite Communications Phased Array Beamforming ICs Average Price by Channel Count (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Satellite Communications Phased Array Beamforming ICs Market Size
Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Ground Based Satellite User Terminal Arrays

8.2.2 Mobile Satellite Terminal Arrays

8.2.3 Spaceborne Satellite Payload Arrays

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Satellite Communications Phased Array Beamforming ICs Production by
Application (2021-2032)

8.3.2 World Satellite Communications Phased Array Beamforming ICs Production
Value by Application (2021-2032)

8.3.3 World Satellite Communications Phased Array Beamforming ICs Average Price
by Application (2021-2032)

9 COMPANY PROFILES

9.1 pSemi Corporation

9.1.1 pSemi Corporation Details

9.1.2 pSemi Corporation Major Business

9.1.3 pSemi Corporation Satellite Communications Phased Array Beamforming ICs
Product and Services

9.1.4 pSemi Corporation Satellite Communications Phased Array Beamforming ICs
Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 pSemi Corporation Recent Developments/Updates

9.1.6 pSemi Corporation Competitive Strengths & Weaknesses

9.2 RFcore Co., Ltd.

9.2.1 RFcore Co., Ltd. Details

9.2.2 RFcore Co., Ltd. Major Business

9.2.3 RFcore Co., Ltd. Satellite Communications Phased Array Beamforming ICs
Product and Services

9.2.4 RFcore Co., Ltd. Satellite Communications Phased Array Beamforming ICs
Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 RFcore Co., Ltd. Recent Developments/Updates

9.2.6 RFcore Co., Ltd. Competitive Strengths & Weaknesses

9.3 MACOM Technology Solutions Holdings, Inc.

9.3.1 MACOM Technology Solutions Holdings, Inc. Details

9.3.2 MACOM Technology Solutions Holdings, Inc. Major Business

9.3.3 MACOM Technology Solutions Holdings, Inc. Satellite Communications Phased Array Beamforming ICs Product and Services

9.3.4 MACOM Technology Solutions Holdings, Inc. Satellite Communications Phased Array Beamforming ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 MACOM Technology Solutions Holdings, Inc. Recent Developments/Updates

9.3.6 MACOM Technology Solutions Holdings, Inc. Competitive Strengths & Weaknesses

9.4 CETC Chips Technology Inc.

9.4.1 CETC Chips Technology Inc. Details

9.4.2 CETC Chips Technology Inc. Major Business

9.4.3 CETC Chips Technology Inc. Satellite Communications Phased Array Beamforming ICs Product and Services

9.4.4 CETC Chips Technology Inc. Satellite Communications Phased Array Beamforming ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 CETC Chips Technology Inc. Recent Developments/Updates

9.4.6 CETC Chips Technology Inc. Competitive Strengths & Weaknesses

9.5 Chengdu T-ray Technology Co., Ltd.

9.5.1 Chengdu T-ray Technology Co., Ltd. Details

9.5.2 Chengdu T-ray Technology Co., Ltd. Major Business

9.5.3 Chengdu T-ray Technology Co., Ltd. Satellite Communications Phased Array Beamforming ICs Product and Services

9.5.4 Chengdu T-ray Technology Co., Ltd. Satellite Communications Phased Array Beamforming ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Chengdu T-ray Technology Co., Ltd. Recent Developments/Updates

9.5.6 Chengdu T-ray Technology Co., Ltd. Competitive Strengths & Weaknesses

9.6 Nanjing Guobo Electronics Co., Ltd.

9.6.1 Nanjing Guobo Electronics Co., Ltd. Details

9.6.2 Nanjing Guobo Electronics Co., Ltd. Major Business

9.6.3 Nanjing Guobo Electronics Co., Ltd. Satellite Communications Phased Array Beamforming ICs Product and Services

9.6.4 Nanjing Guobo Electronics Co., Ltd. Satellite Communications Phased Array Beamforming ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Nanjing Guobo Electronics Co., Ltd. Recent Developments/Updates

9.6.6 Nanjing Guobo Electronics Co., Ltd. Competitive Strengths & Weaknesses

9.7 C-COM Satellite Systems Inc.

- 9.7.1 C-COM Satellite Systems Inc. Details
- 9.7.2 C-COM Satellite Systems Inc. Major Business
- 9.7.3 C-COM Satellite Systems Inc. Satellite Communications Phased Array Beamforming ICs Product and Services
- 9.7.4 C-COM Satellite Systems Inc. Satellite Communications Phased Array Beamforming ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 C-COM Satellite Systems Inc. Recent Developments/Updates
- 9.7.6 C-COM Satellite Systems Inc. Competitive Strengths & Weaknesses
- 9.8 TMY Technology Inc.
 - 9.8.1 TMY Technology Inc. Details
 - 9.8.2 TMY Technology Inc. Major Business
 - 9.8.3 TMY Technology Inc. Satellite Communications Phased Array Beamforming ICs Product and Services
 - 9.8.4 TMY Technology Inc. Satellite Communications Phased Array Beamforming ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 TMY Technology Inc. Recent Developments/Updates
 - 9.8.6 TMY Technology Inc. Competitive Strengths & Weaknesses
- 9.9 Altum RF
 - 9.9.1 Altum RF Details
 - 9.9.2 Altum RF Major Business
 - 9.9.3 Altum RF Satellite Communications Phased Array Beamforming ICs Product and Services
 - 9.9.4 Altum RF Satellite Communications Phased Array Beamforming ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Altum RF Recent Developments/Updates
 - 9.9.6 Altum RF Competitive Strengths & Weaknesses
- 9.10 NXP Semiconductors N.V.
 - 9.10.1 NXP Semiconductors N.V. Details
 - 9.10.2 NXP Semiconductors N.V. Major Business
 - 9.10.3 NXP Semiconductors N.V. Satellite Communications Phased Array Beamforming ICs Product and Services
 - 9.10.4 NXP Semiconductors N.V. Satellite Communications Phased Array Beamforming ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 NXP Semiconductors N.V. Recent Developments/Updates
 - 9.10.6 NXP Semiconductors N.V. Competitive Strengths & Weaknesses
- 9.11 NEC Corporation
 - 9.11.1 NEC Corporation Details

- 9.11.2 NEC Corporation Major Business
- 9.11.3 NEC Corporation Satellite Communications Phased Array Beamforming ICs Product and Services
- 9.11.4 NEC Corporation Satellite Communications Phased Array Beamforming ICs Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 NEC Corporation Recent Developments/Updates
- 9.11.6 NEC Corporation Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Satellite Communications Phased Array Beamforming ICs Industry Chain
- 10.2 Satellite Communications Phased Array Beamforming ICs Upstream Analysis
 - 10.2.1 Satellite Communications Phased Array Beamforming ICs Core Raw Materials
 - 10.2.2 Main Manufacturers of Satellite Communications Phased Array Beamforming ICs Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Satellite Communications Phased Array Beamforming ICs Production Mode
- 10.6 Satellite Communications Phased Array Beamforming ICs Procurement Model
- 10.7 Satellite Communications Phased Array Beamforming ICs Industry Sales Model and Sales Channels
 - 10.7.1 Satellite Communications Phased Array Beamforming ICs Sales Model
 - 10.7.2 Satellite Communications Phased Array Beamforming ICs Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Satellite Communications Phased Array Beamforming ICs Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Satellite Communications Phased Array Beamforming ICs Production Value by Region (2021-2026) & (USD Million)

Table 3. World Satellite Communications Phased Array Beamforming ICs Production Value by Region (2027-2032) & (USD Million)

Table 4. World Satellite Communications Phased Array Beamforming ICs Production Value Market Share by Region (2021-2026)

Table 5. World Satellite Communications Phased Array Beamforming ICs Production Value Market Share by Region (2027-2032)

Table 6. World Satellite Communications Phased Array Beamforming ICs Production by Region (2021-2026) & (K Units)

Table 7. World Satellite Communications Phased Array Beamforming ICs Production by Region (2027-2032) & (K Units)

Table 8. World Satellite Communications Phased Array Beamforming ICs Production Market Share by Region (2021-2026)

Table 9. World Satellite Communications Phased Array Beamforming ICs Production Market Share by Region (2027-2032)

Table 10. World Satellite Communications Phased Array Beamforming ICs Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Satellite Communications Phased Array Beamforming ICs Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Satellite Communications Phased Array Beamforming ICs Major Market Trends

Table 13. World Satellite Communications Phased Array Beamforming ICs Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Satellite Communications Phased Array Beamforming ICs Consumption by Region (2021-2026) & (K Units)

Table 15. World Satellite Communications Phased Array Beamforming ICs Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Satellite Communications Phased Array Beamforming ICs Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Satellite Communications Phased Array Beamforming ICs Producers in 2025

Table 18. World Satellite Communications Phased Array Beamforming ICs Production

by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Satellite Communications Phased Array Beamforming ICs Producers in 2025

Table 20. World Satellite Communications Phased Array Beamforming ICs Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Satellite Communications Phased Array Beamforming ICs Company Evaluation Quadrant

Table 22. World Satellite Communications Phased Array Beamforming ICs Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Satellite Communications Phased Array Beamforming ICs Production Site of Key Manufacturer

Table 24. Satellite Communications Phased Array Beamforming ICs Market: Company Product Type Footprint

Table 25. Satellite Communications Phased Array Beamforming ICs Market: Company Product Application Footprint

Table 26. Satellite Communications Phased Array Beamforming ICs Competitive Factors

Table 27. Satellite Communications Phased Array Beamforming ICs New Entrant and Capacity Expansion Plans

Table 28. Satellite Communications Phased Array Beamforming ICs Mergers & Acquisitions Activity

Table 29. United States VS China Satellite Communications Phased Array Beamforming ICs Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Satellite Communications Phased Array Beamforming ICs Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Satellite Communications Phased Array Beamforming ICs Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Satellite Communications Phased Array Beamforming ICs Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production Market Share (2021-2026)

Table 37. China Based Satellite Communications Phased Array Beamforming ICs Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production Market Share (2021-2026)

Table 42. Rest of World Based Satellite Communications Phased Array Beamforming ICs Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production Market Share (2021-2026)

Table 47. World Satellite Communications Phased Array Beamforming ICs Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Satellite Communications Phased Array Beamforming ICs Production by Type (2021-2026) & (K Units)

Table 49. World Satellite Communications Phased Array Beamforming ICs Production by Type (2027-2032) & (K Units)

Table 50. World Satellite Communications Phased Array Beamforming ICs Production Value by Type (2021-2026) & (USD Million)

Table 51. World Satellite Communications Phased Array Beamforming ICs Production Value by Type (2027-2032) & (USD Million)

Table 52. World Satellite Communications Phased Array Beamforming ICs Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Satellite Communications Phased Array Beamforming ICs Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Satellite Communications Phased Array Beamforming ICs Production Value by Operating Frequency Range, (USD Million), 2021 & 2025 & 2032

Table 55. World Satellite Communications Phased Array Beamforming ICs Production by Operating Frequency Range (2021-2026) & (K Units)

Table 56. World Satellite Communications Phased Array Beamforming ICs Production by Operating Frequency Range (2027-2032) & (K Units)

Table 57. World Satellite Communications Phased Array Beamforming ICs Production

Value by Operating Frequency Range (2021-2026) & (USD Million)

Table 58. World Satellite Communications Phased Array Beamforming ICs Production

Value by Operating Frequency Range (2027-2032) & (USD Million)

Table 59. World Satellite Communications Phased Array Beamforming ICs Average

Price by Operating Frequency Range (2021-2026) & (US\$/Unit)

Table 60. World Satellite Communications Phased Array Beamforming ICs Average

Price by Operating Frequency Range (2027-2032) & (US\$/Unit)

Table 61. World Satellite Communications Phased Array Beamforming ICs Production

Value by Channel Count, (USD Million), 2021 & 2025 & 2032

Table 62. World Satellite Communications Phased Array Beamforming ICs Production
by Channel Count (2021-2026) & (K Units)

Table 63. World Satellite Communications Phased Array Beamforming ICs Production
by Channel Count (2027-2032) & (K Units)

Table 64. World Satellite Communications Phased Array Beamforming ICs Production
Value by Channel Count (2021-2026) & (USD Million)

Table 65. World Satellite Communications Phased Array Beamforming ICs Production
Value by Channel Count (2027-2032) & (USD Million)

Table 66. World Satellite Communications Phased Array Beamforming ICs Average
Price by Channel Count (2021-2026) & (US\$/Unit)

Table 67. World Satellite Communications Phased Array Beamforming ICs Average
Price by Channel Count (2027-2032) & (US\$/Unit)

Table 68. World Satellite Communications Phased Array Beamforming ICs Production
Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Satellite Communications Phased Array Beamforming ICs Production
by Application (2021-2026) & (K Units)

Table 70. World Satellite Communications Phased Array Beamforming ICs Production
by Application (2027-2032) & (K Units)

Table 71. World Satellite Communications Phased Array Beamforming ICs Production
Value by Application (2021-2026) & (USD Million)

Table 72. World Satellite Communications Phased Array Beamforming ICs Production
Value by Application (2027-2032) & (USD Million)

Table 73. World Satellite Communications Phased Array Beamforming ICs Average
Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Satellite Communications Phased Array Beamforming ICs Average
Price by Application (2027-2032) & (US\$/Unit)

Table 75. pSemi Corporation Basic Information, Manufacturing Base and Competitors

Table 76. pSemi Corporation Major Business

Table 77. pSemi Corporation Satellite Communications Phased Array Beamforming ICs
Product and Services

Table 78. pSemi Corporation Satellite Communications Phased Array Beamforming ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. pSemi Corporation Recent Developments/Updates

Table 80. pSemi Corporation Competitive Strengths & Weaknesses

Table 81. RFcore Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 82. RFcore Co., Ltd. Major Business

Table 83. RFcore Co., Ltd. Satellite Communications Phased Array Beamforming ICs Product and Services

Table 84. RFcore Co., Ltd. Satellite Communications Phased Array Beamforming ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. RFcore Co., Ltd. Recent Developments/Updates

Table 86. RFcore Co., Ltd. Competitive Strengths & Weaknesses

Table 87. MACOM Technology Solutions Holdings, Inc. Basic Information, Manufacturing Base and Competitors

Table 88. MACOM Technology Solutions Holdings, Inc. Major Business

Table 89. MACOM Technology Solutions Holdings, Inc. Satellite Communications Phased Array Beamforming ICs Product and Services

Table 90. MACOM Technology Solutions Holdings, Inc. Satellite Communications Phased Array Beamforming ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. MACOM Technology Solutions Holdings, Inc. Recent Developments/Updates

Table 92. MACOM Technology Solutions Holdings, Inc. Competitive Strengths & Weaknesses

Table 93. CETC Chips Technology Inc. Basic Information, Manufacturing Base and Competitors

Table 94. CETC Chips Technology Inc. Major Business

Table 95. CETC Chips Technology Inc. Satellite Communications Phased Array Beamforming ICs Product and Services

Table 96. CETC Chips Technology Inc. Satellite Communications Phased Array Beamforming ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. CETC Chips Technology Inc. Recent Developments/Updates

Table 98. CETC Chips Technology Inc. Competitive Strengths & Weaknesses

Table 99. Chengdu T-ray Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 100. Chengdu T-ray Technology Co., Ltd. Major Business

Table 101. Chengdu T-ray Technology Co., Ltd. Satellite Communications Phased

Array Beamforming ICs Product and Services

Table 102. Chengdu T-ray Technology Co., Ltd. Satellite Communications Phased Array Beamforming ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Chengdu T-ray Technology Co., Ltd. Recent Developments/Updates

Table 104. Chengdu T-ray Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 105. Nanjing Guobo Electronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 106. Nanjing Guobo Electronics Co., Ltd. Major Business

Table 107. Nanjing Guobo Electronics Co., Ltd. Satellite Communications Phased Array Beamforming ICs Product and Services

Table 108. Nanjing Guobo Electronics Co., Ltd. Satellite Communications Phased Array Beamforming ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Nanjing Guobo Electronics Co., Ltd. Recent Developments/Updates

Table 110. Nanjing Guobo Electronics Co., Ltd. Competitive Strengths & Weaknesses

Table 111. C-COM Satellite Systems Inc. Basic Information, Manufacturing Base and Competitors

Table 112. C-COM Satellite Systems Inc. Major Business

Table 113. C-COM Satellite Systems Inc. Satellite Communications Phased Array Beamforming ICs Product and Services

Table 114. C-COM Satellite Systems Inc. Satellite Communications Phased Array Beamforming ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. C-COM Satellite Systems Inc. Recent Developments/Updates

Table 116. C-COM Satellite Systems Inc. Competitive Strengths & Weaknesses

Table 117. TMY Technology Inc. Basic Information, Manufacturing Base and Competitors

Table 118. TMY Technology Inc. Major Business

Table 119. TMY Technology Inc. Satellite Communications Phased Array Beamforming ICs Product and Services

Table 120. TMY Technology Inc. Satellite Communications Phased Array Beamforming ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. TMY Technology Inc. Recent Developments/Updates

Table 122. TMY Technology Inc. Competitive Strengths & Weaknesses

Table 123. Altum RF Basic Information, Manufacturing Base and Competitors

Table 124. Altum RF Major Business

Table 125. Altum RF Satellite Communications Phased Array Beamforming ICs Product

and Services

Table 126. Altum RF Satellite Communications Phased Array Beamforming ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Altum RF Recent Developments/Updates

Table 128. Altum RF Competitive Strengths & Weaknesses

Table 129. NXP Semiconductors N.V. Basic Information, Manufacturing Base and Competitors

Table 130. NXP Semiconductors N.V. Major Business

Table 131. NXP Semiconductors N.V. Satellite Communications Phased Array Beamforming ICs Product and Services

Table 132. NXP Semiconductors N.V. Satellite Communications Phased Array Beamforming ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. NXP Semiconductors N.V. Recent Developments/Updates

Table 134. NXP Semiconductors N.V. Competitive Strengths & Weaknesses

Table 135. NEC Corporation Basic Information, Manufacturing Base and Competitors

Table 136. NEC Corporation Major Business

Table 137. NEC Corporation Satellite Communications Phased Array Beamforming ICs Product and Services

Table 138. NEC Corporation Satellite Communications Phased Array Beamforming ICs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. NEC Corporation Recent Developments/Updates

Table 140. NEC Corporation Competitive Strengths & Weaknesses

Table 141. Global Key Players of Satellite Communications Phased Array Beamforming ICs Upstream (Raw Materials)

Table 142. Global Satellite Communications Phased Array Beamforming ICs Typical Customers

Table 143. Satellite Communications Phased Array Beamforming ICs Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Satellite Communications Phased Array Beamforming ICs Picture

Figure 2. World Satellite Communications Phased Array Beamforming ICs Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Satellite Communications Phased Array Beamforming ICs Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Satellite Communications Phased Array Beamforming ICs Production (2021-2032) & (K Units)

Figure 5. World Satellite Communications Phased Array Beamforming ICs Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Satellite Communications Phased Array Beamforming ICs Production Value Market Share by Region (2021-2032)

Figure 7. World Satellite Communications Phased Array Beamforming ICs Production Market Share by Region (2021-2032)

Figure 8. North America Satellite Communications Phased Array Beamforming ICs Production (2021-2032) & (K Units)

Figure 9. Europe Satellite Communications Phased Array Beamforming ICs Production (2021-2032) & (K Units)

Figure 10. China Satellite Communications Phased Array Beamforming ICs Production (2021-2032) & (K Units)

Figure 11. Japan Satellite Communications Phased Array Beamforming ICs Production (2021-2032) & (K Units)

Figure 12. South Korea Satellite Communications Phased Array Beamforming ICs Production (2021-2032) & (K Units)

Figure 13. Southeast Asia Satellite Communications Phased Array Beamforming ICs Production (2021-2032) & (K Units)

Figure 14. China Taiwan Satellite Communications Phased Array Beamforming ICs Production (2021-2032) & (K Units)

Figure 15. Satellite Communications Phased Array Beamforming ICs Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Satellite Communications Phased Array Beamforming ICs Consumption (2021-2032) & (K Units)

Figure 18. World Satellite Communications Phased Array Beamforming ICs Consumption Market Share by Region (2021-2032)

Figure 19. United States Satellite Communications Phased Array Beamforming ICs Consumption (2021-2032) & (K Units)

- Figure 20. China Satellite Communications Phased Array Beamforming ICs Consumption (2021-2032) & (K Units)
- Figure 21. Europe Satellite Communications Phased Array Beamforming ICs Consumption (2021-2032) & (K Units)
- Figure 22. Japan Satellite Communications Phased Array Beamforming ICs Consumption (2021-2032) & (K Units)
- Figure 23. South Korea Satellite Communications Phased Array Beamforming ICs Consumption (2021-2032) & (K Units)
- Figure 24. ASEAN Satellite Communications Phased Array Beamforming ICs Consumption (2021-2032) & (K Units)
- Figure 25. India Satellite Communications Phased Array Beamforming ICs Consumption (2021-2032) & (K Units)
- Figure 26. Producer Shipments of Satellite Communications Phased Array Beamforming ICs by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 27. Global Four-firm Concentration Ratios (CR4) for Satellite Communications Phased Array Beamforming ICs Markets in 2025
- Figure 28. Global Four-firm Concentration Ratios (CR8) for Satellite Communications Phased Array Beamforming ICs Markets in 2025
- Figure 29. United States VS China: Satellite Communications Phased Array Beamforming ICs Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 30. United States VS China: Satellite Communications Phased Array Beamforming ICs Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 31. United States VS China: Satellite Communications Phased Array Beamforming ICs Consumption Market Share Comparison (2021 & 2025 & 2032)
- Figure 32. United States Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production Market Share 2025
- Figure 33. China Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production Market Share 2025
- Figure 34. Rest of World Based Manufacturers Satellite Communications Phased Array Beamforming ICs Production Market Share 2025
- Figure 35. World Satellite Communications Phased Array Beamforming ICs Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 36. World Satellite Communications Phased Array Beamforming ICs Production Value Market Share by Type in 2025
- Figure 37. Transmit Beamforming IC
- Figure 38. Receive Beamforming IC
- Figure 39. Bidirectional Beamforming IC
- Figure 40. Digital Beamforming ASIC
- Figure 41. Other

Figure 42. World Satellite Communications Phased Array Beamforming ICs Production Market Share by Type (2021-2032)

Figure 43. World Satellite Communications Phased Array Beamforming ICs Production Value Market Share by Type (2021-2032)

Figure 44. World Satellite Communications Phased Array Beamforming ICs Average Price by Type (2021-2032) & (US\$/Unit)

Figure 45. World Satellite Communications Phased Array Beamforming ICs Production Value by Operating Frequency Range, (USD Million), 2021 & 2025 & 2032

Figure 46. World Satellite Communications Phased Array Beamforming ICs Production Value Market Share by Operating Frequency Range in 2025

Figure 47. 8 GHz To Below 18 GHz Products

Figure 48. 17 GHz To Below 23 GHz Products

Figure 49. 27 GHz To Below 31 GHz Products

Figure 50. Other

Figure 51. World Satellite Communications Phased Array Beamforming ICs Production Market Share by Operating Frequency Range (2021-2032)

Figure 52. World Satellite Communications Phased Array Beamforming ICs Production Value Market Share by Operating Frequency Range (2021-2032)

Figure 53. World Satellite Communications Phased Array Beamforming ICs Average Price by Operating Frequency Range (2021-2032) & (US\$/Unit)

Figure 54. World Satellite Communications Phased Array Beamforming ICs Production Value by Channel Count, (USD Million), 2021 & 2025 & 2032

Figure 55. World Satellite Communications Phased Array Beamforming ICs Production Value Market Share by Channel Count in 2025

Figure 56. 4-Channel Products

Figure 57. 8-Channel Products

Figure 58. 16-Channel Products

Figure 59. 32-Element Digital Beamforming Products

Figure 60. Other

Figure 61. World Satellite Communications Phased Array Beamforming ICs Production Market Share by Channel Count (2021-2032)

Figure 62. World Satellite Communications Phased Array Beamforming ICs Production Value Market Share by Channel Count (2021-2032)

Figure 63. World Satellite Communications Phased Array Beamforming ICs Average Price by Channel Count (2021-2032) & (US\$/Unit)

Figure 64. World Satellite Communications Phased Array Beamforming ICs Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 65. World Satellite Communications Phased Array Beamforming ICs Production Value Market Share by Application in 2025

Figure 66. Ground Based Satellite User Terminal Arrays

Figure 67. Mobile Satellite Terminal Arrays

Figure 68. Spaceborne Satellite Payload Arrays

Figure 69. Other

Figure 70. World Satellite Communications Phased Array Beamforming ICs Production Market Share by Application (2021-2032)

Figure 71. World Satellite Communications Phased Array Beamforming ICs Production Value Market Share by Application (2021-2032)

Figure 72. World Satellite Communications Phased Array Beamforming ICs Average Price by Application (2021-2032) & (US\$/Unit)

Figure 73. Satellite Communications Phased Array Beamforming ICs Industry Chain

Figure 74. Satellite Communications Phased Array Beamforming ICs Procurement Model

Figure 75. Satellite Communications Phased Array Beamforming ICs Sales Model

Figure 76. Satellite Communications Phased Array Beamforming ICs Sales Channels, Direct Sales, and Distribution

Figure 77. Methodology

Figure 78. Research Process and Data Source

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