

Global II-V Compound Semiconductor Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GA8A8A47B2C3EN.html>

Date: June 2026

Pages: 138

Price: US\$ 4,480.00 (Single User License)

ID: GA8A8A47B2C3EN

Abstracts

The global II-V Compound Semiconductor market size is expected to reach \$ 63388 million by 2032, rising at a market growth of 10.7% CAGR during the forecast period (2026-2032).

II-V compound semiconductors refer to a class of semiconductor materials composed of elements from group II and group V of the periodic table. Their crystal structures and electronic properties determine their critical role in high-frequency, high-power, optoelectronic, and high-speed electronic applications. Compared with conventional silicon-based materials, II-V compounds such as gallium arsenide (GaAs), gallium nitride (GaN), and indium phosphide (InP) exhibit higher electron mobility, wider bandgap, and superior thermal conductivity, making them indispensable in applications requiring high frequency response, low loss, and high efficiency. GaAs is commonly used in RF and optoelectronic devices, GaN with its wide bandgap and high breakdown field is a core material for power electronics and high-speed communications, while InP plays an irreplaceable role in optical communication and photonic interconnects. This material system is widely applied in optical communications, 5G/6G wireless networks, smart automotive electronics, energy conversion, and radar sensing, reflecting its increasing strategic significance in global technological competition.

II-V compound semiconductors are not a single material type but a collection of various compounds and heterostructures, enabling next-generation electronic, optoelectronic, and power systems. Their research and industrialization involve multiple stages, including crystal growth (such as epitaxial layers and substrates), device design, and module integration. They represent a high-value segment in the semiconductor industry and serve as a material foundation for future high-performance systems.

Market Development Opportunities & Main Driving Factors

The global II-V compound semiconductor market is experiencing a historic growth phase driven by the convergence of technology innovation and expanding demand. The primary driver is the explosive demand from downstream applications. As global communication networks evolve toward higher frequency and bandwidth, the worldwide rollout of 5G and exploration of 6G concepts are creating strong demand for high-frequency RF devices and high-speed optical modules using GaAs and InP. Similarly, the adoption of electric vehicles, smart grids, and renewable energy systems is driving the need for high-efficiency, high-voltage power electronic solutions, positioning GaN and SiC devices as commercial hotspots for power conversion and energy management. The expansion of AI infrastructure and data centers' requirements for high-speed, low-power interconnects also activate upstream investments in II-V epitaxial layers and substrate materials. The unique physical properties of II-V materials, such as direct bandgap and high carrier velocity, provide unmatched advantages in photodetectors, LEDs, laser diodes, and quantum communication components. Moreover, governments worldwide have included advanced semiconductor materials in strategic technology investment lists, offering policy incentives, R&D subsidies, and infrastructure support, providing institutional guarantees for the cultivation of the II-V semiconductor ecosystem. This combination of policy support and market demand creates a powerful engine for industry growth.

Market Challenges, Risks, & Restraints

Despite their broad strategic potential, II-V compound semiconductors face multiple structural challenges. First, the supply chain for critical raw materials is highly concentrated globally. Elements such as gallium, indium, and antimony are subject to export controls and licensing policies in certain regions, directly affecting production stability and cost structures. Second, the manufacturing and processing of II-V materials is inherently high-cost and technologically demanding. Producing high-quality epitaxial wafers and pure substrates requires advanced equipment, precise process control, and sustained R&D investment. Compared to silicon-based technologies, mass production efficiency and economies of scale have not yet fully overcome cost barriers. Additionally, the global shortage of semiconductor talent and specialized researchers limits the rapid industrialization of new technologies. Market concentration among a few leading players also creates competitive imbalance. Furthermore, downstream applications such as automotive electronics require extremely high reliability and environmental resilience, imposing strict technical standards on II-V devices. Investors must consider the technology maturation cycle, supply chain diversification strategies,

and policy fluctuations when evaluating market risks.

Downstream Demand Trends

Downstream demand for II?V compound semiconductors is characterized by multi-layered, technology-driven dynamics. The telecommunications industry remains the primary growth engine. As global networks evolve toward higher bandwidth and lower latency, especially in 5G base stations, millimeter-wave communication, and future 6G applications, GaAs and InP devices are widely used in RF amplifiers and optical communication modules due to their high-frequency performance. Meanwhile, the electric vehicle and smart mobility sectors drive the adoption of GaN devices in motor drives, battery management, and onboard chargers. The energy sector's demand for high-efficiency inverters and renewable energy integration further supports the penetration of II?V power devices. In consumer electronics and data centers, the ongoing need for high-speed optical interconnects and low-loss photonic components reinforces the strategic position of InP and GaAs in optical communications and laser devices. Additionally, vertical industries such as aerospace, medical imaging, and advanced sensing demand high-reliability and extreme-environment-compatible components, offering high-value applications for II?V materials. This diversified downstream landscape enhances industry resilience and provides multiple market entry paths for investors and business decision-makers.

Regional Trends

The global II?V compound semiconductor industry exhibits distinct regional specialization and strategic focus. North America maintains a leadership position in technology R&D and high-end design capabilities, supported by sustained government investment in advanced semiconductor materials and manufacturing. Europe leverages its strong industrial base and innovation ecosystem to strengthen demand for II?V devices in automotive electronics, power electronics, and advanced sensing applications, often through industrial alliances and cross-border collaborations. The Asia-Pacific region, particularly China, Japan, South Korea, and Taiwan, has established a complete manufacturing and supply chain ecosystem, from materials and wafer fabrication to device packaging and integration, reflecting a maturing capability from production to system-level integration. In China, policy measures emphasizing domestic semiconductor self-sufficiency and core technology advancement have elevated the strategic importance of II?V compound semiconductors at the national level, shaping both investment priorities and infrastructure development. Regional differences in demand, policy guidance, and resource allocation have created a multi-polar

development pattern for the global II-V industry, providing clear guidance for executives in cross-region strategic planning and supply chain deployment.

This report studies the global II-V Compound Semiconductor demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for II-V Compound Semiconductor, 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 II-V Compound Semiconductor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global II-V Compound Semiconductor total market, 2021-2032, (USD Million)

Global II-V Compound Semiconductor total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: II-V Compound Semiconductor total market, key domestic companies, and share, (USD Million)

Global II-V Compound Semiconductor revenue by player, revenue and market share 2021-2026, (USD Million)

Global II-V Compound Semiconductor total market by Type, CAGR, 2021-2032, (USD Million)

Global II-V Compound Semiconductor total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global II-V Compound Semiconductor market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include II-VI Incorporated, Qorvo, Sumitomo Electric Industries, Skyworks Solutions, Cree, Win Semiconductor, Infineon Technologies, MACOM Technology Solutions, STMicroelectronics, NXP Semiconductors, 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 II-V Compound Semiconductor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 II-V Compound Semiconductor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global II-V Compound Semiconductor Market, Segmentation by Type:

RF & Microwave Components

Power Electronics Devices

Optoelectronics

High-Speed Transistors

Sensors & Detectors

Global II-V Compound Semiconductor Market, Segmentation by Material Type:

Gallium Arsenide (GaAs)

Gallium Nitride (GaN)

Indium Phosphide (InP)

Gallium Phosphide (GaP)

Cadmium Telluride (CdTe)

Zinc Selenide (ZnSe)

Global II-V Compound Semiconductor Market, Segmentation by Manufacturing Process Technology:

Molecular Beam Epitaxy (MBE)

Metal?Organic Vapor Phase Epitaxy (MOVPE / MOCVD)

Chemical Vapor Deposition (CVD)

Liquid Phase Epitaxy

Hydride Vapor Phase Epitaxy

Global II-V Compound Semiconductor Market, Segmentation by Application:

Energy & Power

Telecom & Communication

Consumer Electronics

Automotive & EV

Aerospace & Defense

Medical & Healthcare

Industrial Electronics

Companies Profiled:

II?VI Incorporated

Qorvo

Sumitomo Electric Industries

Skyworks Solutions

Cree

Win Semiconductor

Infineon Technologies

MACOM Technology Solutions

STMicroelectronics

NXP Semiconductors

ON Semiconductor

Analog Devices

Nichia Corporation

Sanan Optoelectronics

ams?OSRAM

Broadcom

Key Questions Answered

1. How big is the global II-V Compound Semiconductor market?
2. What is the demand of the global II-V Compound Semiconductor market?
3. What is the year over year growth of the global II-V Compound Semiconductor market?
4. What is the total value of the global II-V Compound Semiconductor market?
5. Who are the Major Players in the global II-V Compound Semiconductor market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 II-V Compound Semiconductor Introduction
- 1.2 World II-V Compound Semiconductor Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World II-V Compound Semiconductor Total Market by Region (by Headquarter Location)
 - 1.3.1 World II-V Compound Semiconductor Market Size by Region (2021-2032), (by Headquarter Location)
 - 1.3.2 United States Based Company II-V Compound Semiconductor Revenue (2021-2032)
 - 1.3.3 China Based Company II-V Compound Semiconductor Revenue (2021-2032)
 - 1.3.4 Europe Based Company II-V Compound Semiconductor Revenue (2021-2032)
 - 1.3.5 Japan Based Company II-V Compound Semiconductor Revenue (2021-2032)
 - 1.3.6 South Korea Based Company II-V Compound Semiconductor Revenue (2021-2032)
 - 1.3.7 ASEAN Based Company II-V Compound Semiconductor Revenue (2021-2032)
 - 1.3.8 India Based Company II-V Compound Semiconductor Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 II-V Compound Semiconductor Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Major Market Trends

2 DEMAND SUMMARY

- 2.1 World II-V Compound Semiconductor Consumption Value (2021-2032)
- 2.2 World II-V Compound Semiconductor Consumption Value by Region
 - 2.2.1 World II-V Compound Semiconductor Consumption Value by Region (2021-2026)
 - 2.2.2 World II-V Compound Semiconductor Consumption Value Forecast by Region (2027-2032)
- 2.3 United States II-V Compound Semiconductor Consumption Value (2021-2032)
- 2.4 China II-V Compound Semiconductor Consumption Value (2021-2032)
- 2.5 Europe II-V Compound Semiconductor Consumption Value (2021-2032)
- 2.6 Japan II-V Compound Semiconductor Consumption Value (2021-2032)
- 2.7 South Korea II-V Compound Semiconductor Consumption Value (2021-2032)
- 2.8 ASEAN II-V Compound Semiconductor Consumption Value (2021-2032)
- 2.9 India II-V Compound Semiconductor Consumption Value (2021-2032)

3 WORLD II-V COMPOUND SEMICONDUCTOR COMPANIES COMPETITIVE ANALYSIS

- 3.1 World II-V Compound Semiconductor Revenue by Player (2021-2026)
- 3.2 Industry Rank and Concentration Rate (CR)
 - 3.2.1 Global II-V Compound Semiconductor Industry Rank of Major Players
 - 3.2.2 Global Concentration Ratios (CR4) for II-V Compound Semiconductor in 2025
 - 3.2.3 Global Concentration Ratios (CR8) for II-V Compound Semiconductor in 2025
- 3.3 II-V Compound Semiconductor Company Evaluation Quadrant
- 3.4 II-V Compound Semiconductor Market: Overall Company Footprint Analysis
 - 3.4.1 II-V Compound Semiconductor Market: Region Footprint
 - 3.4.2 II-V Compound Semiconductor Market: Company Product Type Footprint
 - 3.4.3 II-V Compound Semiconductor Market: Company Product Application Footprint
- 3.5 Competitive Environment
 - 3.5.1 Historical Structure of the Industry
 - 3.5.2 Barriers of Market Entry
 - 3.5.3 Factors of Competition
- 3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

- 4.1 United States VS China: II-V Compound Semiconductor Revenue Comparison (by Headquarter Location)
 - 4.1.1 United States VS China: II-V Compound Semiconductor Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)
 - 4.1.2 United States VS China: II-V Compound Semiconductor Revenue Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States Based Companies VS China Based Companies: II-V Compound Semiconductor Consumption Value Comparison
 - 4.2.1 United States VS China: II-V Compound Semiconductor Consumption Value Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: II-V Compound Semiconductor Consumption Value Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States Based II-V Compound Semiconductor Companies and Market Share, 2021-2026
 - 4.3.1 United States Based II-V Compound Semiconductor Companies, Headquarters (States, Country)
 - 4.3.2 United States Based Companies II-V Compound Semiconductor Revenue,

(2021-2026)

4.4 China Based Companies II-V Compound Semiconductor Revenue and Market Share, 2021-2026

4.4.1 China Based II-V Compound Semiconductor Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies II-V Compound Semiconductor Revenue, (2021-2026)

4.5 Rest of World Based II-V Compound Semiconductor Companies and Market Share, 2021-2026

4.5.1 Rest of World Based II-V Compound Semiconductor Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies II-V Compound Semiconductor Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World II-V Compound Semiconductor Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 RF & Microwave Components

5.2.2 Power Electronics Devices

5.2.3 Optoelectronics

5.2.4 High-Speed Transistors

5.2.5 Sensors & Detectors

5.3 Market Segment by Type

5.3.1 World II-V Compound Semiconductor Market Size by Type (2021-2026)

5.3.2 World II-V Compound Semiconductor Market Size by Type (2027-2032)

5.3.3 World II-V Compound Semiconductor Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY MATERIAL TYPE

6.1 World II-V Compound Semiconductor Market Size Overview by Material Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Material Type

6.2.1 Gallium Arsenide (GaAs)

6.2.2 Gallium Nitride (GaN)

6.2.3 Indium Phosphide (InP)

6.2.4 Gallium Phosphide (GaP)

6.2.5 Cadmium Telluride (CdTe)

6.2.6 Zinc Selenide (ZnSe)

6.3 Market Segment by Material Type

6.3.1 World II-V Compound Semiconductor Market Size by Material Type (2021-2026)

6.3.2 World II-V Compound Semiconductor Market Size by Material Type (2027-2032)

6.3.3 World II-V Compound Semiconductor Market Size Market Share by Material Type (2027-2032)

7 MARKET ANALYSIS BY MANUFACTURING PROCESS TECHNOLOGY

7.1 World II-V Compound Semiconductor Market Size Overview by Manufacturing Process Technology: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Manufacturing Process Technology

7.2.1 Molecular Beam Epitaxy (MBE)

7.2.2 Metal/Organic Vapor Phase Epitaxy (MOVPE / MOCVD)

7.2.3 Chemical Vapor Deposition (CVD)

7.2.4 Liquid Phase Epitaxy

7.2.5 Hydride Vapor Phase Epitaxy

7.3 Market Segment by Manufacturing Process Technology

7.3.1 World II-V Compound Semiconductor Market Size by Manufacturing Process Technology (2021-2026)

7.3.2 World II-V Compound Semiconductor Market Size by Manufacturing Process Technology (2027-2032)

7.3.3 World II-V Compound Semiconductor Market Size Market Share by Manufacturing Process Technology (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World II-V Compound Semiconductor Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Energy & Power

8.2.2 Telecom & Communication

8.2.3 Consumer Electronics

8.2.4 Automotive & EV

8.2.5 Aerospace & Defense

8.2.6 Medical & Healthcare

8.2.7 Industrial Electronics

8.3 Market Segment by Application

8.3.1 World II-V Compound Semiconductor Market Size by Application (2021-2026)

8.3.2 World II-V Compound Semiconductor Market Size by Application (2027-2032)

8.3.3 World II-V Compound Semiconductor Market Size Market Share by Application (2021-2032)

9 COMPANY PROFILES

9.1 II?VI Incorporated

9.1.1 II?VI Incorporated Details

9.1.2 II?VI Incorporated Major Business

9.1.3 II?VI Incorporated II-V Compound Semiconductor Product and Services

9.1.4 II?VI Incorporated II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026)

9.1.5 II?VI Incorporated Recent Developments/Updates

9.1.6 II?VI Incorporated Competitive Strengths & Weaknesses

9.2 Qorvo

9.2.1 Qorvo Details

9.2.2 Qorvo Major Business

9.2.3 Qorvo II-V Compound Semiconductor Product and Services

9.2.4 Qorvo II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026)

9.2.5 Qorvo Recent Developments/Updates

9.2.6 Qorvo Competitive Strengths & Weaknesses

9.3 Sumitomo Electric Industries

9.3.1 Sumitomo Electric Industries Details

9.3.2 Sumitomo Electric Industries Major Business

9.3.3 Sumitomo Electric Industries II-V Compound Semiconductor Product and Services

9.3.4 Sumitomo Electric Industries II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026)

9.3.5 Sumitomo Electric Industries Recent Developments/Updates

9.3.6 Sumitomo Electric Industries Competitive Strengths & Weaknesses

9.4 Skyworks Solutions

9.4.1 Skyworks Solutions Details

9.4.2 Skyworks Solutions Major Business

9.4.3 Skyworks Solutions II-V Compound Semiconductor Product and Services

9.4.4 Skyworks Solutions II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026)

9.4.5 Skyworks Solutions Recent Developments/Updates

9.4.6 Skyworks Solutions Competitive Strengths & Weaknesses

9.5 Cree

- 9.5.1 Cree Details
- 9.5.2 Cree Major Business
- 9.5.3 Cree II-V Compound Semiconductor Product and Services
- 9.5.4 Cree II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
- 9.5.5 Cree Recent Developments/Updates
- 9.5.6 Cree Competitive Strengths & Weaknesses
- 9.6 Win Semiconductor
- 9.6.1 Win Semiconductor Details
- 9.6.2 Win Semiconductor Major Business
- 9.6.3 Win Semiconductor II-V Compound Semiconductor Product and Services
- 9.6.4 Win Semiconductor II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
- 9.6.5 Win Semiconductor Recent Developments/Updates
- 9.6.6 Win Semiconductor Competitive Strengths & Weaknesses
- 9.7 Infineon Technologies
- 9.7.1 Infineon Technologies Details
- 9.7.2 Infineon Technologies Major Business
- 9.7.3 Infineon Technologies II-V Compound Semiconductor Product and Services
- 9.7.4 Infineon Technologies II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
- 9.7.5 Infineon Technologies Recent Developments/Updates
- 9.7.6 Infineon Technologies Competitive Strengths & Weaknesses
- 9.8 MACOM Technology Solutions
- 9.8.1 MACOM Technology Solutions Details
- 9.8.2 MACOM Technology Solutions Major Business
- 9.8.3 MACOM Technology Solutions II-V Compound Semiconductor Product and Services
- 9.8.4 MACOM Technology Solutions II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
- 9.8.5 MACOM Technology Solutions Recent Developments/Updates
- 9.8.6 MACOM Technology Solutions Competitive Strengths & Weaknesses
- 9.9 STMicroelectronics
- 9.9.1 STMicroelectronics Details
- 9.9.2 STMicroelectronics Major Business
- 9.9.3 STMicroelectronics II-V Compound Semiconductor Product and Services
- 9.9.4 STMicroelectronics II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
- 9.9.5 STMicroelectronics Recent Developments/Updates

- 9.9.6 STMicroelectronics Competitive Strengths & Weaknesses
- 9.10 NXP Semiconductors
 - 9.10.1 NXP Semiconductors Details
 - 9.10.2 NXP Semiconductors Major Business
 - 9.10.3 NXP Semiconductors II-V Compound Semiconductor Product and Services
 - 9.10.4 NXP Semiconductors II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
 - 9.10.5 NXP Semiconductors Recent Developments/Updates
 - 9.10.6 NXP Semiconductors Competitive Strengths & Weaknesses
- 9.11 ON Semiconductor
 - 9.11.1 ON Semiconductor Details
 - 9.11.2 ON Semiconductor Major Business
 - 9.11.3 ON Semiconductor II-V Compound Semiconductor Product and Services
 - 9.11.4 ON Semiconductor II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
 - 9.11.5 ON Semiconductor Recent Developments/Updates
 - 9.11.6 ON Semiconductor Competitive Strengths & Weaknesses
- 9.12 Analog Devices
 - 9.12.1 Analog Devices Details
 - 9.12.2 Analog Devices Major Business
 - 9.12.3 Analog Devices II-V Compound Semiconductor Product and Services
 - 9.12.4 Analog Devices II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Analog Devices Recent Developments/Updates
 - 9.12.6 Analog Devices Competitive Strengths & Weaknesses
- 9.13 Nichia Corporation
 - 9.13.1 Nichia Corporation Details
 - 9.13.2 Nichia Corporation Major Business
 - 9.13.3 Nichia Corporation II-V Compound Semiconductor Product and Services
 - 9.13.4 Nichia Corporation II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Nichia Corporation Recent Developments/Updates
 - 9.13.6 Nichia Corporation Competitive Strengths & Weaknesses
- 9.14 Sanan Optoelectronics
 - 9.14.1 Sanan Optoelectronics Details
 - 9.14.2 Sanan Optoelectronics Major Business
 - 9.14.3 Sanan Optoelectronics II-V Compound Semiconductor Product and Services
 - 9.14.4 Sanan Optoelectronics II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026)

- 9.14.5 Sanan Optoelectronics Recent Developments/Updates
- 9.14.6 Sanan Optoelectronics Competitive Strengths & Weaknesses
- 9.15 ams?OSRAM
 - 9.15.1 ams?OSRAM Details
 - 9.15.2 ams?OSRAM Major Business
 - 9.15.3 ams?OSRAM II-V Compound Semiconductor Product and Services
 - 9.15.4 ams?OSRAM II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
 - 9.15.5 ams?OSRAM Recent Developments/Updates
 - 9.15.6 ams?OSRAM Competitive Strengths & Weaknesses
- 9.16 Broadcom
 - 9.16.1 Broadcom Details
 - 9.16.2 Broadcom Major Business
 - 9.16.3 Broadcom II-V Compound Semiconductor Product and Services
 - 9.16.4 Broadcom II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Broadcom Recent Developments/Updates
 - 9.16.6 Broadcom Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 II-V Compound Semiconductor Industry Chain
- 10.2 II-V Compound Semiconductor Upstream Analysis
- 10.3 II-V Compound Semiconductor Midstream Analysis
- 10.4 II-V Compound Semiconductor Downstream Analysis

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 II-V Compound Semiconductor Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World II-V Compound Semiconductor Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World II-V Compound Semiconductor Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World II-V Compound Semiconductor Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World II-V Compound Semiconductor Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World II-V Compound Semiconductor Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World II-V Compound Semiconductor Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World II-V Compound Semiconductor Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World II-V Compound Semiconductor Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key II-V Compound Semiconductor Players in 2025

Table 12. World II-V Compound Semiconductor Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global II-V Compound Semiconductor Company Evaluation Quadrant

Table 14. Head Office of Key II-V Compound Semiconductor Players

Table 15. II-V Compound Semiconductor Market: Company Product Type Footprint

Table 16. II-V Compound Semiconductor Market: Company Product Application Footprint

Table 17. II-V Compound Semiconductor Mergers & Acquisitions Activity

Table 18. United States VS China II-V Compound Semiconductor Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China II-V Compound Semiconductor Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based II-V Compound Semiconductor Companies, Headquarters (States, Country)

Table 21. United States Based Companies II-V Compound Semiconductor Revenue,

(2021-2026) & (USD Million)

Table 22. United States Based Companies II-V Compound Semiconductor Revenue Market Share (2021-2026)

Table 23. China Based II-V Compound Semiconductor Companies, Headquarters (Province, Country)

Table 24. China Based Companies II-V Compound Semiconductor Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies II-V Compound Semiconductor Revenue Market Share (2021-2026)

Table 26. Rest of World Based II-V Compound Semiconductor Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies II-V Compound Semiconductor Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies II-V Compound Semiconductor Revenue Market Share (2021-2026)

Table 29. World II-V Compound Semiconductor Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World II-V Compound Semiconductor Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World II-V Compound Semiconductor Market Size by Type (2027-2032) & (USD Million)

Table 32. World II-V Compound Semiconductor Market Size by Material Type, (USD Million), 2021 & 2025 & 2032

Table 33. World II-V Compound Semiconductor Market Size Value by Material Type (2021-2026) & (USD Million)

Table 34. World II-V Compound Semiconductor Market Size by Material Type (2027-2032) & (USD Million)

Table 35. World II-V Compound Semiconductor Market Size by Manufacturing Process Technology, (USD Million), 2021 & 2025 & 2032

Table 36. World II-V Compound Semiconductor Market Size Value by Manufacturing Process Technology (2021-2026) & (USD Million)

Table 37. World II-V Compound Semiconductor Market Size by Manufacturing Process Technology (2027-2032) & (USD Million)

Table 38. World II-V Compound Semiconductor Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 39. World II-V Compound Semiconductor Market Size by Application (2021-2026) & (USD Million)

Table 40. World II-V Compound Semiconductor Market Size by Application (2027-2032) & (USD Million)

Table 41. II?VI Incorporated Basic Information, Manufacturing Base and Competitors
Table 42. II?VI Incorporated Major Business
Table 43. II?VI Incorporated II-V Compound Semiconductor Product and Services
Table 44. II?VI Incorporated II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 45. II?VI Incorporated Recent Developments/Updates
Table 46. II?VI Incorporated Competitive Strengths & Weaknesses
Table 47. Qorvo Basic Information, Manufacturing Base and Competitors
Table 48. Qorvo Major Business
Table 49. Qorvo II-V Compound Semiconductor Product and Services
Table 50. Qorvo II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 51. Qorvo Recent Developments/Updates
Table 52. Qorvo Competitive Strengths & Weaknesses
Table 53. Sumitomo Electric Industries Basic Information, Manufacturing Base and Competitors
Table 54. Sumitomo Electric Industries Major Business
Table 55. Sumitomo Electric Industries II-V Compound Semiconductor Product and Services
Table 56. Sumitomo Electric Industries II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 57. Sumitomo Electric Industries Recent Developments/Updates
Table 58. Sumitomo Electric Industries Competitive Strengths & Weaknesses
Table 59. Skyworks Solutions Basic Information, Manufacturing Base and Competitors
Table 60. Skyworks Solutions Major Business
Table 61. Skyworks Solutions II-V Compound Semiconductor Product and Services
Table 62. Skyworks Solutions II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 63. Skyworks Solutions Recent Developments/Updates
Table 64. Skyworks Solutions Competitive Strengths & Weaknesses
Table 65. Cree Basic Information, Manufacturing Base and Competitors
Table 66. Cree Major Business
Table 67. Cree II-V Compound Semiconductor Product and Services
Table 68. Cree II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 69. Cree Recent Developments/Updates
Table 70. Cree Competitive Strengths & Weaknesses
Table 71. Win Semiconductor Basic Information, Manufacturing Base and Competitors
Table 72. Win Semiconductor Major Business

Table 73. Win Semiconductor II-V Compound Semiconductor Product and Services

Table 74. Win Semiconductor II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 75. Win Semiconductor Recent Developments/Updates

Table 76. Win Semiconductor Competitive Strengths & Weaknesses

Table 77. Infineon Technologies Basic Information, Manufacturing Base and Competitors

Table 78. Infineon Technologies Major Business

Table 79. Infineon Technologies II-V Compound Semiconductor Product and Services

Table 80. Infineon Technologies II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 81. Infineon Technologies Recent Developments/Updates

Table 82. Infineon Technologies Competitive Strengths & Weaknesses

Table 83. MACOM Technology Solutions Basic Information, Manufacturing Base and Competitors

Table 84. MACOM Technology Solutions Major Business

Table 85. MACOM Technology Solutions II-V Compound Semiconductor Product and Services

Table 86. MACOM Technology Solutions II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 87. MACOM Technology Solutions Recent Developments/Updates

Table 88. MACOM Technology Solutions Competitive Strengths & Weaknesses

Table 89. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 90. STMicroelectronics Major Business

Table 91. STMicroelectronics II-V Compound Semiconductor Product and Services

Table 92. STMicroelectronics II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 93. STMicroelectronics Recent Developments/Updates

Table 94. STMicroelectronics Competitive Strengths & Weaknesses

Table 95. NXP Semiconductors Basic Information, Manufacturing Base and Competitors

Table 96. NXP Semiconductors Major Business

Table 97. NXP Semiconductors II-V Compound Semiconductor Product and Services

Table 98. NXP Semiconductors II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 99. NXP Semiconductors Recent Developments/Updates

Table 100. NXP Semiconductors Competitive Strengths & Weaknesses

Table 101. ON Semiconductor Basic Information, Manufacturing Base and Competitors

Table 102. ON Semiconductor Major Business

Table 103. ON Semiconductor II-V Compound Semiconductor Product and Services
Table 104. ON Semiconductor II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 105. ON Semiconductor Recent Developments/Updates
Table 106. ON Semiconductor Competitive Strengths & Weaknesses
Table 107. Analog Devices Basic Information, Manufacturing Base and Competitors
Table 108. Analog Devices Major Business
Table 109. Analog Devices II-V Compound Semiconductor Product and Services
Table 110. Analog Devices II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 111. Analog Devices Recent Developments/Updates
Table 112. Analog Devices Competitive Strengths & Weaknesses
Table 113. Nichia Corporation Basic Information, Manufacturing Base and Competitors
Table 114. Nichia Corporation Major Business
Table 115. Nichia Corporation II-V Compound Semiconductor Product and Services
Table 116. Nichia Corporation II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 117. Nichia Corporation Recent Developments/Updates
Table 118. Nichia Corporation Competitive Strengths & Weaknesses
Table 119. Sanan Optoelectronics Basic Information, Manufacturing Base and Competitors
Table 120. Sanan Optoelectronics Major Business
Table 121. Sanan Optoelectronics II-V Compound Semiconductor Product and Services
Table 122. Sanan Optoelectronics II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 123. Sanan Optoelectronics Recent Developments/Updates
Table 124. Sanan Optoelectronics Competitive Strengths & Weaknesses
Table 125. ams?OSRAM Basic Information, Manufacturing Base and Competitors
Table 126. ams?OSRAM Major Business
Table 127. ams?OSRAM II-V Compound Semiconductor Product and Services
Table 128. ams?OSRAM II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 129. ams?OSRAM Recent Developments/Updates
Table 130. ams?OSRAM Competitive Strengths & Weaknesses
Table 131. Broadcom Basic Information, Manufacturing Base and Competitors
Table 132. Broadcom Major Business
Table 133. Broadcom II-V Compound Semiconductor Product and Services
Table 134. Broadcom II-V Compound Semiconductor Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 135. Broadcom Recent Developments/Updates

Table 136. Broadcom Competitive Strengths & Weaknesses

Table 137. Global Key Players of II-V Compound Semiconductor Upstream (Raw Materials)

Table 138. Global II-V Compound Semiconductor Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. II-V Compound Semiconductor Picture

Figure 2. World II-V Compound Semiconductor Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World II-V Compound Semiconductor Total Revenue (2021-2032) & (USD Million)

Figure 4. World II-V Compound Semiconductor Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World II-V Compound Semiconductor Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company II-V Compound Semiconductor Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company II-V Compound Semiconductor Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company II-V Compound Semiconductor Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company II-V Compound Semiconductor Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company II-V Compound Semiconductor Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company II-V Compound Semiconductor Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company II-V Compound Semiconductor Revenue (2021-2032) & (USD Million)

Figure 13. II-V Compound Semiconductor Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World II-V Compound Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 16. World II-V Compound Semiconductor Consumption Value Market Share by Region (2021-2032)

Figure 17. United States II-V Compound Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 18. China II-V Compound Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe II-V Compound Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan II-V Compound Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 21. South Korea II-V Compound Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN II-V Compound Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 23. India II-V Compound Semiconductor Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of II-V Compound Semiconductor by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for II-V Compound Semiconductor Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for II-V Compound Semiconductor Markets in 2025

Figure 27. United States VS China: II-V Compound Semiconductor Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: II-V Compound Semiconductor Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World II-V Compound Semiconductor Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World II-V Compound Semiconductor Market Size Market Share by Type in 2025

Figure 31. RF & Microwave Components

Figure 32. Power Electronics Devices

Figure 33. Optoelectronics

Figure 34. High-Speed Transistors

Figure 35. Sensors & Detectors

Figure 36. World II-V Compound Semiconductor Market Size Market Share by Type (2021-2032)

Figure 37. World II-V Compound Semiconductor Market Size by Material Type, (USD Million), 2021 & 2025 & 2032

Figure 38. World II-V Compound Semiconductor Market Size Market Share by Material Type in 2025

Figure 39. Gallium Arsenide (GaAs)

Figure 40. Gallium Nitride (GaN)

Figure 41. Indium Phosphide (InP)

Figure 42. Gallium Phosphide (GaP)

Figure 43. Cadmium Telluride (CdTe)

Figure 44. Zinc Selenide (ZnSe)

Figure 45. World II-V Compound Semiconductor Market Size Market Share by Material Type (2021-2032)

Figure 46. World II-V Compound Semiconductor Market Size by Manufacturing Process Technology, (USD Million), 2021 & 2025 & 2032

Figure 47. World II-V Compound Semiconductor Market Size Market Share by Manufacturing Process Technology in 2025

Figure 48. Molecular Beam Epitaxy (MBE)

Figure 49. Metal/Organic Vapor Phase Epitaxy (MOVPE / MOCVD)

Figure 50. Chemical Vapor Deposition (CVD)

Figure 51. Liquid Phase Epitaxy

Figure 52. Hydride Vapor Phase Epitaxy

Figure 53. World II-V Compound Semiconductor Market Size Market Share by Manufacturing Process Technology (2021-2032)

Figure 54. World II-V Compound Semiconductor Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World II-V Compound Semiconductor Market Size Market Share by Application in 2025

Figure 56. Energy & Power

Figure 57. Telecom & Communication

Figure 58. Consumer Electronics

Figure 59. Automotive & EV

Figure 60. Aerospace & Defense

Figure 61. Medical & Healthcare

Figure 62. Industrial Electronics

Figure 63. World II-V Compound Semiconductor Market Size Market Share by Application (2021-2032)

Figure 64. II-V Compound Semiconductor Industrial Chain

Figure 65. Methodology

Figure 66. Research Process and Data Source

I would like to order

Product name: Global II-V Compound Semiconductor Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/GA8A8A47B2C3EN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GA8A8A47B2C3EN.html>