

Global GaN and As/P MOCVD Systems Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global GaN and As/P MOCVD Systems market size was valued at US\$ 504 million in 2025 and is forecast to a readjusted size of US\$ 866 million by 2032 with a CAGR of 7.8% during review period.

GaN and As/P MOCVD Systems refer to integrated MOCVD toolsets used for III-nitride epitaxy (centered on GaN/AlGaIn/InGaIn) and arsenide/phosphide epitaxy (centered on GaAs/InP and related ternary/quaternary compounds), enabling stable control of key epitaxy metrics such as thickness, composition, doping, and within-wafer uniformity on the corresponding substrate platforms. A typical system comprises the reactor and chamber, wafer handling and thermal management, gas and metal-organic precursor delivery and switching, pressure and flow control, vacuum and exhaust handling, in-situ monitoring and process control software, safety interlocks, and abatement. In 2025, global combined production of GaN and As/P MOCVD systems totaled 227 units, with an average selling price of USD 2.157 million per unit.

The GaN and As/P MOCVD systems market is a critical-tool segment in compound semiconductors, characterized by small-batch production, high process barriers, and stringent qualification requirements. Demand behaves like project-based capital spending driven by platform introduction and yield ramp, and is tightly correlated with downstream expansion cycles, qualification windows, and capex cadence. Regionally, demand concentrates in clusters with active epitaxy manufacturing and strong device ecosystems, forming a dual-engine pattern where manufacturing sites drive volume platform deployments while R&D centers pull process iteration and platform upgrades; localized delivery and service coverage are increasingly important for share capture. From a product-structure perspective, the two material systems are tiered by substrate

platform, reactor architecture and wafer-motion scheme, thermal/flow-field design, and the level of automation and in-situ monitoring. R&D and pilot lines prioritize recipe flexibility, fast changeover, and process-window exploration, while volume production prioritizes particle/defect control, repeatability, uptime, and lot-to-lot stability; customers often remain on the same platform when moving from development to production to reduce re-qualification cost. Application-wise, GaN systems primarily serve LEDs and GaN power/RF epitaxy, while As/P systems primarily serve lasers/VCSELs, optical communications, and related optoelectronic epitaxy, jointly pushing tools toward lower defects, tighter thermal uniformity, stronger in-situ monitoring, and higher automation. In cost structure, value and cost concentrate in the reactor and chamber, thermal management, precursor delivery and switching, pressure and flow control, vacuum and exhaust handling, safety interlocks and abatement, and process control software with in-situ monitoring; critical chamber parts, control subsystems, and abatement units often determine performance and delivery cost. On the manufacturing side, single-line capacity—defined by assembly, integration, burn-in, and factory acceptance—typically ranges from 6 to 20 tools per year, while actual deliveries are constrained by lead times of critical components, engineering manpower, and customer on-site acceptance scheduling. Sector gross margin is 35%–40%, with profit formation relying on a system-level premium and commissioning capability, complemented by sticky service revenue from spares/consumables, maintenance, upgrades/retrofits, and process support. Upstream spans precision parts and materials, high-purity gases and chemicals, valves and mass-flow control, and vacuum/abatement modules; midstream focuses on full-system integration and software control; downstream is epitaxy manufacturing and the optoelectronic/power/RF device ecosystem. The competitive landscape is highly concentrated with high switching costs, and entry barriers are driven by process consistency and reliability validation, safety compliance, and long-term service delivery. Going forward, systems will continue to evolve toward higher automation, stronger in-situ monitoring, lower particles and defects, higher uptime, and more digitalized operations and data closed loops to improve lot-to-lot stability.

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

Key Features:

Global GaN and As/P MOCVD Systems market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global GaN and As/P MOCVD Systems market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global GaN and As/P MOCVD Systems market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global GaN and As/P MOCVD Systems market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

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

To assess the growth potential for GaN and As/P MOCVD Systems

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

To assess competitive factors affecting the marketplace

This report profiles key players in the global GaN and As/P MOCVD Systems market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include AIXTRON Technologies, Advanced Micro-Fabrication Equipment, Topecsh, Veeco, Taiyo Nippon Sanso, NuFlare Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

GaN and As/P MOCVD Systems market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche

markets.

Market segment by Type

GaN-based MOCVD

GaAs/InP-based MOCVD

Market segment by Substrate/Wafer Diameter

2 inch

3–4 inch

6 inch

8 inch

Market segment by Chamber Count

Single-chamber

Dual-chamber

Multi-chamber

Market segment by Application

LED

Power Devices

Lasers

RF Devices

Research

Major players covered

AIXTRON Technologies

Advanced Micro-Fabrication Equipment

Topecsh

Veeco

Taiyo Nippon Sanso

NuFlare Technology

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

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

Chapter 1, to describe GaN and As/P MOCVD Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of GaN and As/P MOCVD Systems, with price, sales quantity, revenue, and global market share of GaN and As/P MOCVD Systems from 2021 to 2026.

Chapter 3, the GaN and As/P MOCVD Systems competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the GaN and As/P MOCVD Systems breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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

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

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

Chapter 13, the key raw materials and key suppliers, and industry chain of GaN and As/P MOCVD Systems.

Chapter 14 and 15, to describe GaN and As/P MOCVD Systems sales channel, distributors, customers, research findings and conclusion.

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