

Global GaN Solid State Power Amplifiers 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 Solid State Power Amplifiers market size was valued at US\$ 190 million in 2025 and is forecast to a readjusted size of US\$ 489 million by 2032 with a CAGR of 14.6% during review period.

GaN Amplifiers are electronic devices that are used to amplify a low-power radio frequency signal.

This report is a detailed and comprehensive analysis for global GaN Solid State Power Amplifiers 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 Solid State Power Amplifiers market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global GaN Solid State Power Amplifiers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global GaN Solid State Power Amplifiers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global GaN Solid State Power Amplifiers market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

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

To assess the growth potential for GaN Solid State Power Amplifiers

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 Solid State Power Amplifiers 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 Macom, RFHIC, Analog Devices, Inc, Exodus Advanced Communications, Beverly Microwave Division (CPI), Ametek Inc, Teledyne Microwave Solutions, Kratos' Microwave Electronics Division, NEC Space Technologies, Advantech Wireless, etc.

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

Market Segmentation

GaN Solid State Power Amplifiers 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

6W & 8W

10W, 11W & 12W

25W

60W

Others

Market segment by Application

Wireless Infrastructure

Aerospace and Defense

Civilian Radar

Satellite Communication

Others

Major players covered

Macom

RFHIC

Analog Devices, Inc

Exodus Advanced Communications

Beverly Microwave Division (CPI)

Ametek Inc

Teledyne Microwave Solutions

Kratos' Microwave Electronics Division

NEC Space Technologies

Advantech Wireless

Infinite Electronics (Pasternack, Fairview Microwave)

Filtronic

Nxbeam

Kratos (CTT)

AMETEK CTS (IFI)

Wolfspeed

Mercury

RF-Lambda

MILLER MMIC

Triad RF Systems

Keylink Microwave

Skyworks

Sumitomo Electric Industries

United Monolithic Semiconductors (UMS)

Diamond Microwave Devices Limited

Microchip

NXP Semiconductors

EPC (Efficient Power Conversion)

Dynax Semiconductor

Sainty-tech Communications Limited

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 Solid State Power Amplifiers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of GaN Solid State Power Amplifiers, with price, sales quantity, revenue, and global market share of GaN Solid State Power Amplifiers from 2021 to 2026.

Chapter 3, the GaN Solid State Power Amplifiers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the GaN Solid State Power Amplifiers 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 Solid State Power Amplifiers 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 Solid State Power Amplifiers.

Chapter 14 and 15, to describe GaN Solid State Power Amplifiers sales channel, distributors, customers, research findings and conclusion.

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