

Global Microwave and RF Solid State Power Amplifier (SSPA) for Defence Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Microwave and RF Solid State Power Amplifier (SSPA) for Defence market size was valued at US\$ 206 million in 2024 and is forecast to a readjusted size of USD 362 million by 2031 with a CAGR of 7.7% during review period.

Microwave and RF Solid State Power Amplifier (SSPA) for Defence

Microwave and Radio Frequency (RF) Solid State Power Amplifiers (SSPAs) are critical components in modern defense systems, designed to amplify low-power microwave and RF signals to high-power levels for a variety of military applications. These amplifiers are essential in radar systems, electronic warfare (EW), satellite communications, and military communication networks, where high power, reliability, and efficiency are paramount. SSPAs leverage advanced semiconductor technologies, such as Gallium Nitride (GaN) and Gallium Arsenide (GaAs), to deliver superior performance in terms of power density, bandwidth, and thermal management. Their solid-state design ensures compactness, durability, and resistance to harsh environmental conditions, making them ideal for use in airborne, ground-based, and naval defense platforms. By providing robust and efficient signal amplification, Microwave and RF SSPAs play a vital role in enhancing the operational capabilities of modern defense systems.

The growth of the microwave and RF solid-state power amplifier (SSPA) market for defense is primarily driven by the following factors: First, the increasing demand for high-precision, high-reliability, and high-power electronic equipment in modern warfare, particularly in radar, electronic warfare, and military communications. SSPAs, with their high efficiency, high power density, and long lifespan, have become the preferred

choice over traditional traveling wave tube amplifiers (TWT). Second, the rise in global defense budgets, especially investments in advanced military technologies, has spurred the widespread adoption of SSPAs in defense applications. Additionally, the rapid development of wide-bandgap semiconductor materials such as gallium nitride (GaN) has significantly enhanced the performance of SSPAs, enabling them to operate at higher frequencies and power levels, meeting the demands of modern defense systems for high-performance amplifiers. Finally, the emergence of new technologies such as unmanned aerial vehicles (UAVs), satellite communications, and network-centric warfare has further expanded the demand for high-power SSPAs.

The microwave and RF solid-state power amplifier (SSPA) market for defense is moving toward high performance, modularity, and multifunctionality. First, the widespread adoption of wide-bandgap semiconductor materials (e.g., GaN) is driving SSPAs toward higher power, higher frequency, and smaller form factors, while improving device efficiency and reliability. Second, modular design has become a trend to meet the demand for compact and lightweight equipment across various defense platforms (e.g., airborne, shipborne, and ground systems). Additionally, multifunctional integrated SSPAs are gaining popularity, as they can simultaneously support multiple applications such as radar, communications, and electronic warfare, enhancing device versatility and operational flexibility. Finally, with the integration of artificial intelligence and automation technologies, the manufacturing and maintenance costs of SSPAs are being further reduced, while their performance and stability are significantly improved, providing strong support for the upgrading and innovation of future defense systems.

This report is a detailed and comprehensive analysis for global Microwave and RF Solid State Power Amplifier (SSPA) for Defence 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 Microwave and RF Solid State Power Amplifier (SSPA) for Defence market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Microwave and RF Solid State Power Amplifier (SSPA) for Defence market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Microwave and RF Solid State Power Amplifier (SSPA) for Defence market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Microwave and RF Solid State Power Amplifier (SSPA) for Defence market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Microwave and RF Solid State Power Amplifier (SSPA) for Defence
- 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 Microwave and RF Solid State Power Amplifier (SSPA) for Defence 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 Communications & Power Industries, Thales, Qorvo, Teledyne Defense Electronics, Ametek Inc, General Dynamics, NEC Space Technologies, Ltd, Kratos, BONN Elektronik GmbH, Advantech Wireless Technologies, etc.

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

Market Segmentation

Microwave and RF Solid State Power Amplifier (SSPA) for Defence market is split by Type and by Application. For the period 2020-2031, 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

C-band SSPA

L-band & S-band SSPA

X-band SSPA

Ku-band & Ka-band SSPA

Others

Market segment by Application

Airborne Radar

Shipborne Radar

Ground Based Radar

Electronics Warfare

Military Communication

Major players covered

Communications & Power Industries

Thales

Qorvo

Teledyne Defense Electronics

Ametek Inc

General Dynamics

NEC Space Technologies, Ltd

Kratos

BONN Elektronik GmbH

Advantech Wireless Technologies

Diamond Microwave Devices Limited

Jersey Microwave

BHE Ltd.

RFHIC

MITSUBISHI ELECTRIC

Ceyear Technologies

Macom

Stellant Systems

Filtronic

Leonardo S.p.A.

L3Harris Technologies

LUCIX

QuinStar 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 Microwave and RF Solid State Power Amplifier (SSPA) for Defence product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Microwave and RF Solid State Power Amplifier (SSPA) for Defence, with price, sales quantity, revenue, and global market share of Microwave and RF Solid State Power Amplifier (SSPA) for Defence from 2020 to 2025.

Chapter 3, the Microwave and RF Solid State Power Amplifier (SSPA) for Defence competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Microwave and RF Solid State Power Amplifier (SSPA) for Defence breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Microwave and RF Solid State Power Amplifier (SSPA) for Defence market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Microwave and RF Solid State Power Amplifier (SSPA) for Defence.

Chapter 14 and 15, to describe Microwave and RF Solid State Power Amplifier (SSPA) for Defence sales channel, distributors, customers, research findings and conclusion.

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