

Global Microwave and RF Solid State Power Amplifier (SSPA) for Defence Market Growth 2026-2032

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Abstracts

The global Microwave and RF Solid State Power Amplifier (SSPA) for Defence market size is predicted to grow from US\$ 221 million in 2025 to US\$ 378 million in 2032; it is expected to grow at a CAGR of 8.2% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the "Microwave and RF Solid State Power Amplifier (SSPA) for Defence Industry Forecast" looks at past sales and reviews total world Microwave and RF Solid State Power Amplifier (SSPA) for Defence sales in 2025, providing a comprehensive analysis by region and market sector of projected Microwave and RF Solid State Power Amplifier (SSPA) for Defence sales for 2026 through 2032. With Microwave and RF Solid State Power Amplifier (SSPA) for Defence sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Microwave and RF Solid State Power Amplifier (SSPA) for Defence industry.

This Insight Report provides a comprehensive analysis of the global Microwave and RF Solid State Power Amplifier (SSPA) for Defence landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Microwave and RF Solid State Power Amplifier (SSPA) for Defence portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position

in an accelerating global Microwave and RF Solid State Power Amplifier (SSPA) for Defence market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Microwave and RF Solid State Power Amplifier (SSPA) for Defence and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Microwave and RF Solid State Power Amplifier (SSPA) for Defence.

This report presents a comprehensive overview, market shares, and growth opportunities of Microwave and RF Solid State Power Amplifier (SSPA) for Defence market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

C-band SSPA

L-band & S-band SSPA

X-band SSPA

Ku-band & Ka-band SSPA

Others

Segmentation by Application:

Airborne Radar

Shipborne Radar

Ground Based Radar

Electronics Warfare

Military Communication

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Rflight Communication Electronic

Key Questions Addressed in this Report

What is the 10-year outlook for the global Microwave and RF Solid State Power Amplifier (SSPA) for Defence market?

What factors are driving Microwave and RF Solid State Power Amplifier (SSPA) for Defence market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Microwave and RF Solid State Power Amplifier (SSPA) for Defence market opportunities vary by end market size?

How does Microwave and RF Solid State Power Amplifier (SSPA) for Defence break out by Type, by Application?

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