

Global Active Phased Array T/R Component Market Growth 2026-2032

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Abstracts

The global Active Phased Array T/R Component market size is predicted to grow from US\$ 1773 million in 2025 to US\$ 6259 million in 2032; it is expected to grow at a CAGR of 20.1% from 2026 to 2032.

Active Phased Array T/R Component is a fundamental hardware element used inside an electronically steered antenna to enable transmit and receive functionality at the radiating element or subarray level. It refers to the discrete or integrated RF building blocks that generate and condition transmit power, amplify weak received signals, switch or duplex between transmit and receive paths, and control phase and amplitude so the array can steer and shape beams electronically. Typical T/R components include power amplifiers, low-noise amplifiers, RF switches, phase shifters, attenuators, beamforming and control devices, bias and power management circuits, and supporting sensing elements used for calibration and health monitoring, all designed to operate reliably under tight RF, thermal, and environmental constraints. The unit price of an Active Phased Array T/R Component is typically around several thousand US dollars, with an industry gross margin between 30% and 40%.

Upstream, the supply chain starts with compound semiconductor and silicon wafer technologies used to fabricate RF devices and control integrated circuits, supported by specialty epitaxy, high-frequency passives, and advanced substrate materials such as ceramic and low-loss laminates. It also includes packaging and interconnect services like die attach, wirebond and flip-chip assembly, hermetic or ruggedized enclosures, RF connectors, thermal spreaders, and interface materials, plus test equipment and calibration standards needed to verify performance across frequency, temperature, and power. Downstream, these components are supplied to T/R module makers and active antenna panel integrators, then to radar and communications primes building AESA

radars, electronic warfare arrays, and active satellite payload antennas for defense and space customers, with additional pull from spares, depot repair, and upgrade programs that sustain long platform lifecycles.

United States market for Active Phased Array T/R Component is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Active Phased Array T/R Component is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Active Phased Array T/R Component is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Active Phased Array T/R Component players cover RTX, HENSOLDT, Kratos Defense, BEL, CAES (Honeywell), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Active Phased Array T/R Component Industry Forecast" looks at past sales and reviews total world Active Phased Array T/R Component sales in 2025, providing a comprehensive analysis by region and market sector of projected Active Phased Array T/R Component sales for 2026 through 2032. With Active Phased Array T/R Component sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Active Phased Array T/R Component industry.

This Insight Report provides a comprehensive analysis of the global Active Phased Array T/R Component 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 Active Phased Array T/R Component portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Active Phased Array T/R Component market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Active Phased Array T/R Component 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 Active Phased Array T/R Component.

This report presents a comprehensive overview, market shares, and growth opportunities of Active Phased Array T/R Component market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

X band

Ku band

Ka band

Others

Segmentation by Technology:

GaAs

GaN

Others

Segmentation by Application:

Military

Civilian

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.

RTX

HENSOLDT

Kratos Defense

BEL

CAES (Honeywell)

L3Harris

Filtronic

Kyocera

Spectrum Control

Nanjing Guobo Electronics

Chengdu RML Technology

YaGuang Technology Group

Chengdu RaXio

Key Questions Addressed in this Report

What is the 10-year outlook for the global Active Phased Array T/R Component market?

What factors are driving Active Phased Array T/R Component market growth, globally and by region?

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

How do Active Phased Array T/R Component market opportunities vary by end market size?

How does Active Phased Array T/R Component break out by Type, by Application?

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