

# Global Active Phased Array Transmit Receive Module Market Growth 2026-2032

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## Abstracts

The global Active Phased Array Transmit Receive Module 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 Transmit Receive Module is a self-contained radio frequency building block used in electronically steered antennas that performs both transmit and receive functions for an individual radiating element or a small group of elements. It integrates transmit power amplification, low-noise receive amplification, switching between transmit and receive paths, and precise phase and gain control so the antenna can steer and shape beams electronically. The module also typically includes bias and power management, digital control interfaces, calibration features, and health monitoring to support stable performance and maintainability in demanding radar, electronic warfare, and satellite communications environments. The unit price of an Active Phased Array Transmit Receive Module is typically around several thousand US dollars, with an industry gross margin between 30% and 40%.

Upstream, the supply chain starts with compound semiconductor technologies and wafer fabrication for RF amplifiers and control integrated circuits, along with high frequency passives, filters, duplexing or switching components, precision timing and control devices, and thermal materials such as heat spreaders, interface compounds, and high conductivity baseplates. It also depends on advanced packaging inputs including ceramic or organic substrates, interposers, wirebond and flip-chip services, hermetic or rugged housings, RF connectors, and conformal coatings, plus test equipment and calibration infrastructure for over-the-air and conducted RF verification. Downstream, modules flow into subsystem integrators that assemble active antenna panels and tile arrays, then into radar and communications primes that build AESA

radars, electronic warfare arrays, and active satellite payload antennas for defense customers, space operators, and selected high reliability commercial users, with aftermarket demand coming from spares provisioning, depot repair, upgrades, and lifecycle support tied to long platform service lives.

United States market for Active Phased Array Transmit Receive Module 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 Transmit Receive Module 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 Transmit Receive Module 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 Transmit Receive Module 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 Transmit Receive Module Industry Forecast" looks at past sales and reviews total world Active Phased Array Transmit Receive Module sales in 2025, providing a comprehensive analysis by region and market sector of projected Active Phased Array Transmit Receive Module sales for 2026 through 2032. With Active Phased Array Transmit Receive Module 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 Transmit Receive Module industry.

This Insight Report provides a comprehensive analysis of the global Active Phased Array Transmit Receive Module 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 Transmit Receive Module 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 Transmit Receive Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Active Phased Array Transmit Receive Module 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 Transmit Receive Module.

This report presents a comprehensive overview, market shares, and growth opportunities of Active Phased Array Transmit Receive Module 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 Transmit Receive Module market?

What factors are driving Active Phased Array Transmit Receive Module market growth, globally and by region?

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

How do Active Phased Array Transmit Receive Module market opportunities vary by end market size?

How does Active Phased Array Transmit Receive Module break out by Type, by Application?

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