

Global Active Phased Array T/R Component Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/A20C779C3A62EN.html>

Date: January 2026

Pages: 114

Price: US\$ 3,480.00 (Single User License)

ID: A20C779C3A62EN

Abstracts

According to our (Global Info Research) latest study, the global Active Phased Array T/R Component market size was valued at US\$ 1865 million in 2025 and is forecast to a readjusted size of US\$ 6205 million by 2032 with a CAGR of 18.9% during review period.

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.

This report is a detailed and comprehensive analysis for global Active Phased Array T/R Component 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 Active Phased Array T/R Component market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Active Phased Array T/R Component 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 Active Phased Array T/R Component 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 Active Phased Array T/R Component 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 Active Phased Array T/R Component
- 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 Active Phased Array T/R Component

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 RTX, HENSOLDT, Kratos Defense, BEL, CAES (Honeywell), L3Harris, Filtronic, Kyocera, Spectrum Control, Nanjing Guobo Electronics, etc.

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

Market Segmentation

Active Phased Array T/R Component 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

X band

Ku band

Ka band

Others

Market segment by Technology

GaAs

GaN

Others

Market segment by Application

Military

Civilian

Major players covered

RTX

HENSOLDT

Kratos Defense

BEL

CAES (Honeywell)

L3Harris

Filtronic

Kyocera

Spectrum Control

Nanjing Guobo Electronics

Chengdu RML Technology

YaGuang Technology Group

Chengdu RaXio

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 Active Phased Array T/R Component product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Active Phased Array T/R Component, with price, sales quantity, revenue, and global market share of Active Phased Array T/R Component from 2021 to 2026.

Chapter 3, the Active Phased Array T/R Component competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Active Phased Array T/R Component 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 Active Phased Array T/R Component 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 Active Phased Array T/R Component.

Chapter 14 and 15, to describe Active Phased Array T/R Component sales channel, distributors, customers, research findings and conclusion.

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