

Global Phased Array T-R Chip 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 Phased Array T-R Chip market size was valued at US\$ 5397 million in 2024 and is forecast to a readjusted size of USD 8477 million by 2031 with a CAGR of 6.7% during review period.

A Phased Array Transmit-Receive (T-R) chip is a semiconductor device used in radar and communication systems, particularly in phased array antenna systems. Phased array antennas consist of multiple individual antenna elements, typically in a grid or array configuration. These elements can be electronically controlled to transmit and receive signals in a way that allows for beam steering and beamforming.

Rapid Advancements in 5G and Radar Systems: Phased array T-R chips play a crucial role in 5G communication systems and radar applications. The deployment of 5G networks and the increasing demand for advanced radar systems were driving growth in this market.

Miniaturization and Integration: There was a trend toward miniaturization and integration of phased array T-R chips. Companies were working on developing smaller, more power-efficient, and highly integrated chips to meet the demands of various applications, including mobile devices, automotive radar, and satellite communication.

Increased Use in Automotive Radar: The automotive industry was a significant adopter of phased array T-R chips for applications like advanced driver-assistance systems (ADAS) and autonomous vehicles. These chips enable precise and high-speed radar sensing, which is crucial for safety and autonomous driving features.

Defense and Aerospace Applications: Phased array T-R chips were also widely used in defense and aerospace applications for radar systems, electronic warfare, and communication systems. The defense sector's investments in advanced technology were contributing to the growth of this market.

This report is a detailed and comprehensive analysis for global Phased Array T-R Chip 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 Phased Array T-R Chip market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Phased Array T-R Chip 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 Phased Array T-R Chip 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 Phased Array T-R Chip 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 Phased Array T-R Chip
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Phased Array T-R Chip 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 Kyocera, Keysight Technologies, UMS, IBM, Hanwha Phasor, Aethercomm, NCSIST, Thales, IDT, ADI, etc.

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

Market Segmentation

Phased Array T-R Chip 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

Power Amplifier Chip

Low Noise Amplifier Chip

Driver Amplifier Chip

Others

Market segment by Application

Airborne Radar

Shipborne Radar

Vehicle Radar

Ground Radar

Major players covered

Kyocera

Keysight Technologies

UMS

IBM

Hanwha Phasor

Aethercomm

NCSIST

Thales

IDT

ADI

Anokiwave

CETC

China Aerospace Science And Industry

Chengchang 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 Phased Array T-R Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Phased Array T-R Chip, with price, sales quantity, revenue, and global market share of Phased Array T-R Chip from 2020 to 2025.

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

Chapter 4, the Phased Array T-R Chip 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 Phased Array T-R Chip 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 Phased Array T-R Chip.

Chapter 14 and 15, to describe Phased Array T-R Chip sales channel, distributors, customers, research findings and conclusion.

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