

Global PCB Patch Antenna Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GB259388A385EN.html>

Date: May 2026

Pages: 114

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

ID: GB259388A385EN

Abstracts

According to our (Global Info Research) latest study, the global PCB Patch Antenna market size was valued at US\$ 69.38 million in 2025 and is forecast to a readjusted size of US\$ 129 million by 2032 with a CAGR of 9.3% during review period.

PCB Patch Antenna refers to a planar patch antenna implemented on or with a printed circuit board substrate, where the radiating patch, feed structure, and ground plane are realized through PCB-based design. It is essentially a microstrip patch antenna or a derivative thereof, featuring a low profile, ease of integration, scalable manufacturing, and strong compatibility with host-board co-design. PCB patch antennas are widely used in GNSS, Wi-Fi, Bluetooth, ISM, cellular, LoRa, and other embedded wireless devices. Compared with ceramic patch antennas, PCB patch antennas usually offer better structural flexibility and lower system cost, but their real-world performance is more dependent on PCB material, ground-plane size, antenna placement, and overall device layout. In 2025, global PCB Patch Antenna production reached approximately 35677.2 K Units. The upstream of the PCB patch antenna industry mainly includes copper-clad laminates and RF substrates, resin and fiberglass materials, conductive and surface-finishing materials, RF connectors and coaxial cables, matching components such as capacitors and inductors, RF front-end devices including LNA/SAW/filter components, as well as test fixtures and antenna simulation software. The downstream covers GNSS devices, automotive navigation and telematics units, industrial IoT terminals, drones, smart meters, wearables, asset trackers, routers, and various wireless modules. A key characteristic of this value chain is that PCB patch antennas are rarely pure off-the-shelf parts; instead, they are highly co-dependent on the host PCB, ground plane, enclosure material, and overall EMC environment. As a result, midstream suppliers often provide not only the antenna itself, but also layout

guidelines, matching-network optimization, system tuning, and certification support.

The PCB patch antenna market represents a relatively specialized segment within the broader embedded antenna industry, primarily serving wireless devices that require a low-profile form factor, easy integration, controlled cost, and close host-board co-design. Compared with ceramic patch antennas, PCB patch antennas generally offer better structural flexibility and stronger compatibility with integrated PCB-based product design, making them well suited for GNSS terminals, asset trackers, automotive telematics devices, industrial IoT equipment, drones, and selected smart metering applications. Market demand is mainly driven by the continued penetration of positioning and connectivity functions across end devices, as well as OEM preference for compact, lightweight, and lower-system-cost antenna solutions. At the same time, product performance remains highly dependent on ground-plane size, enclosure material, system layout, and EMC conditions, which means the segment is less standardized than general-purpose chip antenna categories.

This report is a detailed and comprehensive analysis for global PCB Patch Antenna 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 PCB Patch Antenna market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global PCB Patch Antenna market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global PCB Patch Antenna market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global PCB Patch Antenna market shares of main players, shipments in revenue (\$

Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 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 PCB Patch Antenna

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 PCB Patch Antenna 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 Cirocomm, Maxtena, Abracon, TE Connectivity, Yageo (Pulse Electronics), Passive System Alliance (PSA), Taoglas, Molex, Johanson Technology, Unictron, etc.

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

Market Segmentation

PCB Patch Antenna 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

Passive

Active

Market segment by Polarization

Linear Polarized

RHCP

LHCP

Dual-Polarized

Market segment by Frequency Band

GNSS

2.4 GHz

5 GHz / 5.8 GHz

Sub-GHz ISM

Cellular / LPWA

Others

Market segment by Structure Type

Single-layer

Multi-layer

Market segment by Application

Consumer Electronics

Automotive Electronics

Industrial IoT

Drones and Robotics

Others

Major players covered

Cirocomm

Maxtena

Abracon

TE Connectivity

Yageo (Pulse Electronics)

Passive System Alliance (PSA)

Taoglas

Molex

Johanson Technology

Unictron

Honant

Kinghelm

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 PCB Patch Antenna product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PCB Patch Antenna, with price, sales quantity, revenue, and global market share of PCB Patch Antenna from 2021 to 2026.

Chapter 3, the PCB Patch Antenna competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PCB Patch Antenna 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 PCB Patch Antenna 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 PCB Patch Antenna.

Chapter 14 and 15, to describe PCB Patch Antenna sales channel, distributors, customers, research findings and conclusion.

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