

Global ABF Substrate (FC-BGA) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global ABF Substrate (FC-BGA) market size was valued at USD 4856.2 million in 2023 and is forecast to a readjusted size of USD 6980.7 million by 2030 with a CAGR of 5.3% during review period.

Flip Chip Ball Grid Array is a mid-cost, high-performance, semiconductor packaging solution that utilizes the controlled collapse chip connection technology, also known as flip chip, for its die to substrate interconnection. FC BGA provides the design flexibility for much higher signal density and functionality into a smaller die and packaging footprint. FC BGA packaging is attractive where performance is more important than cost. Flip-chip BGA packages can be mounted using standard printed circuit boards and can be replaced using existing standard repair practices. This report studies the FC BGA substrate, also called ABF (Ajinomoto Build-up Film) substrates, which are IC Substrates made of Ajinomoto Build-up Film. The ABF (Ajinomoto Build-up Film) substrate consists of multiple layers of microcircuits, known as a “build-up substrate” which allows the formation of these miniature components as its surface is receptive to laser processing and direct copper plating. Most modern chipmakers use ABF to design the smaller components of their CPUs and GPUs.

Global key players of ABF substrate (FC-BGA) include Unimicron, AT&S, Nan Ya PCB, Shinko Electric Industries, Ibiden, etc. The top five players hold a share about 69%. China Taiwan is the largest producer, has a share about 45%, followed by Japan and China, with share 25% and 15%, respectively. The largest market is Asia Pacific, with a share about 77%, followed by North America and Europe, with share 14% and 7%, separately.

The Global Info Research report includes an overview of the development of the ABF Substrate (FC-BGA) industry chain, the market status of PCs (4-8 Layers ABF Substrate, 8-16 Layers ABF Substrate), Server & Data Center (4-8 Layers ABF Substrate, 8-16 Layers ABF Substrate), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of ABF Substrate (FC-BGA).

Regionally, the report analyzes the ABF Substrate (FC-BGA) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global ABF Substrate (FC-BGA) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the ABF Substrate (FC-BGA) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the ABF Substrate (FC-BGA) industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Square Meters), revenue generated, and market share of different by Type (e.g., 4-8 Layers ABF Substrate, 8-16 Layers ABF Substrate).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the ABF Substrate (FC-BGA) market.

Regional Analysis: The report involves examining the ABF Substrate (FC-BGA) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the ABF Substrate (FC-BGA) market. This may include

estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to ABF Substrate (FC-BGA):

Company Analysis: Report covers individual ABF Substrate (FC-BGA) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards ABF Substrate (FC-BGA). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (PCs, Server & Data Center).

Technology Analysis: Report covers specific technologies relevant to ABF Substrate (FC-BGA). It assesses the current state, advancements, and potential future developments in ABF Substrate (FC-BGA) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the ABF Substrate (FC-BGA) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

ABF Substrate (FC-BGA) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

4-8 Layers ABF Substrate

8-16 Layers ABF Substrate

Others

Market segment by Application

PCs

Server & Data Center

HPC/AI Chips

Communication

Others

Major players covered

Unimicron

Ibiden

Nan Ya PCB

Shinko Electric Industries

Kinsus Interconnect

AT&S

Semco

Kyocera

TOPPAN

Zhen Ding Technology

Daeduck Electronics

ASE Material

ACCESS

NCAP China

LG InnoTek

Shennan Circuit

Shenzhen Fastprint Circuit Tech

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 ABF Substrate (FC-BGA) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of ABF Substrate (FC-BGA), with price, sales, revenue and global market share of ABF Substrate (FC-BGA) from 2019 to 2024.

Chapter 3, the ABF Substrate (FC-BGA) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the ABF Substrate (FC-BGA) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and ABF Substrate (FC-BGA) market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 ABF Substrate (FC-BGA).

Chapter 14 and 15, to describe ABF Substrate (FC-BGA) sales channel, distributors, customers, research findings and conclusion.

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