

# Global FC-BGA (ABF) Substrate Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global FC-BGA (ABF) Substrate market size will reach 3,683.22 Million USD in 2025 and is projected to reach 5,980.54 Million USD by 2032, with a CAGR of 7.17% (2025-2032). Notably, the China FC-BGA (ABF) Substrate market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

FC-BGA (Flip Chip Ball Grid Array) with ABF (Ajinomoto Build-up Film) substrate is an advanced packaging technology used in the semiconductor industry for electronic components and integrated circuits (ICs). It involves the combination of a Flip Chip interconnection technique with an ABF substrate. The FC-BGA package utilizes solder balls to directly connect the microelectronic die to the ABF substrate, eliminating the need for wire bonding. The ABF substrate, made of multiple layers of polyimide film with copper interconnects, provides electrical and mechanical support to the interconnects. This combination offers advantages such as high-density interconnections, improved electrical performance, reduced signal loss, and enhanced thermal dissipation. FC-BGA with ABF substrates is commonly used in applications that require high-speed signal transmission, compact size, and efficient thermal management, such as in advanced computing, mobile devices, networking equipment, and automotive electronics. It enables the production of smaller, faster, and more reliable electronic systems.

The major global manufacturers of FC-BGA (ABF) Substrate include 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, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of FC-BGA (ABF) Substrate. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global FC-BGA (ABF) Substrate market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the FC-BGA (ABF) Substrate market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of FC-BGA (ABF) Substrate industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of FC-BGA (ABF) Substrate Include:

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

FC-BGA (ABF) Substrate Product Segment Include:

4-8 Layers ABF Substrate

8-16 Layers ABF Substrate

Others

FC-BGA (ABF) Substrate Product Application Include:

PCs

Server & Data Center

HPC/AI Chips

Communication

Others

## **Chapter Scope**

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Chapter 3: Global FC-BGA (ABF) Substrate Industry PESTEL Analysis

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