

Global Mobile Phone HDI Mainboard Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Mobile Phone HDI Mainboard market size is expected to reach \$ 3779 million by 2032, rising at a market growth of 2.5% CAGR during the forecast period (2026-2032).

In 2025, global Mobile Phone HDI Mainboard production reached approximately 154 million units , with an average global market price of around US\$20 per unit.

A mobile phone HDI mainboard is a high-density PCB used in smartphones to support complex electronic systems. By utilizing microvias, buried vias, fine lines, and multi-layer structures, HDI PCBs enable high-density routing and superior electrical performance. Compared to traditional PCBs, HDI boards offer smaller size, higher integration, and better signal integrity, supporting advanced components such as processors, memory, RF modules, and multi-camera systems. They are a critical foundation for achieving compact, high-performance, and multifunctional smartphone designs.

The upstream of mobile phone HDI PCBs includes copper-clad laminates (CCL), copper foil, resin materials, drilling/plating chemicals, and manufacturing equipment. Representative suppliers include Rogers Corporation, Shengyi Technology, and Panasonic, with chemical and equipment providers such as Atotech and Hitachi High-Tech. The midstream consists of HDI PCB manufacturers like Unimicron, Compeq Manufacturing, and TTM Technologies. Downstream are smartphone OEMs such as Apple, Samsung Electronics, and Xiaomi. The industry chain is highly technology-intensive, combining advanced materials, precision manufacturing, and consumer electronics integration.

This report studies the global Mobile Phone HDI Mainboard production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Mobile Phone HDI Mainboard and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Mobile Phone HDI Mainboard that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Mobile Phone HDI Mainboard total production and demand, 2021-2032, (Million Units)

Global Mobile Phone HDI Mainboard total production value, 2021-2032, (USD Million)

Global Mobile Phone HDI Mainboard production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Mobile Phone HDI Mainboard consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Mobile Phone HDI Mainboard domestic production, consumption, key domestic manufacturers and share

Global Mobile Phone HDI Mainboard production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Mobile Phone HDI Mainboard production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Mobile Phone HDI Mainboard production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Mobile Phone HDI Mainboard market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nippon Mektron, TTM Technologies, Samsung, AT&S, Meiko Electronics, Redboard Technology, ZD Tech, Unimicron, Dongshan Precision, Shennan Circuit, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Mobile Phone HDI Mainboard market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Mobile Phone HDI Mainboard Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Mobile Phone HDI Mainboard Market, Segmentation by Type:

Rigid Board

Flexible Board

Global Mobile Phone HDI Mainboard Market, Segmentation by Number of Layer:

4-6 Layers

6-8 Layers

8-10 Layers

10-16 Layers

Others

Global Mobile Phone HDI Mainboard Market, Segmentation by Application:

Android Phones

IOS Phones

Others

Companies Profiled:

Nippon Mektron

TTM Technologies

Samsung

AT&S

Meiko Electronics

Redboard Technology

ZD Tech

Unimicron

Dongshan Precision

Shennan Circuit

Compeq

Tripod

WUS Printed Circuit

Kinwong

Victory Giant

Shengyi Electronics

Wuzhu Technology

Bomin Electronics

Suntak Technology

Key Questions Answered:

1. How big is the global Mobile Phone HDI Mainboard market?
2. What is the demand of the global Mobile Phone HDI Mainboard market?
3. What is the year over year growth of the global Mobile Phone HDI Mainboard market?
4. What is the production and production value of the global Mobile Phone HDI Mainboard market?
5. Who are the key producers in the global Mobile Phone HDI Mainboard market?
6. What are the growth factors driving the market demand?

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