

Global Heat Spreaders for Semiconductor Packaging Market Growth 2026-2032

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Abstracts

The global Heat Spreaders for Semiconductor Packaging market size is predicted to grow from US\$ 731 million in 2025 to US\$ 1343 million in 2032; it is expected to grow at a CAGR of 9.3% from 2026 to 2032.

A heat spreader is high thermal conductive metallic materials for efficient heat dissipation from an IC chip in a semiconductor package.

This report studies the Heat Spreaders for semiconductor IC package, include FC (Flip Chip) heat spreaders and BGA heat spreaders. The Flip Chip heat spreaders include Lid/Ring type, Hat type, Flat Top type and Cavity type heat spreaders, etc. These spreaders are used in CPU packages for personal computers, CPU packages for servers, SoC/FPGA packages for automotive devices, Processor packages for communication equipment, and AI processor packages, etc.

Heat spreaders are one of the fundamental heat dissipation components used in various industries. They are typically made of high thermal conductivity metals such as copper or aluminum. In the electronics industry, heat spreaders or heat sinks are installed on electronic components or chips to transfer or dissipate the heat generated by the components using the thermal conductivity of the heat dissipation material itself. Heat spreaders find wide applications in the electronic information industry, semiconductor industry, and optoelectronic component industry, with downstream applications extending to the 3C industry.

Furthermore, electric vehicles (EVs) and hybrid electric vehicles (HEVs) have become a major trend in automotive development. In the inverters and rectifiers of electric vehicles, high-power chip modules pose thermal dissipation challenges. Currently, the

mainstream solution for such designs is to use water-cooled heat spreaders. By utilizing highly thermally conductive metal materials, along with metal processing techniques and surface treatments, the chip temperature can be controlled within an acceptable range using water cooling. The thermal design of water-cooled heat spreaders needs to effectively dissipate the heat generated by the chips, while considering the cost and manufacturability aspects of the design for mass production.

Currently, the global heat spreader market is primarily dominated by manufacturers from Japan, the United States, and China Taiwan, with China Taiwan being the largest production region, accounting for approximately 57% of the global market share in 2024. Japan and the United States are also significant production regions, with market shares of 16.7% and 17.1%, respectively, in 2024. Chinese manufacturers entered this field relatively late, with two main players currently holding a combined global market share of 4.98% in 2024, which is expected to grow to 10.25% by 2031.

In terms of materials, copper heat spreaders currently dominate the market, accounting for 89% of the market share in 2024. Due to the design changes in AI chips, heat spreaders have not only become larger and thicker but also shifted materials. Historically, copper was the primary material used for heat spreaders due to its high thermal conductivity of 401 W/m.K, which is higher than that of gold or aluminum, second only to silver. However, heat spreader materials are now moving toward stainless steel, which has higher hardness and is more difficult to process, thus raising the technological barriers for manufacturers. In the coming years, stainless steel-based heat spreader are expected to see faster growth.

Regarding chip sizes, the proportion of large-sized heat spreader products is gradually increasing. Heat spreaders are closely related to chip packaging. In the past, processors required heat spreaders with an area of around 30mm x 30mm. Now, with chip manufacturers enhancing computational speeds and incorporating more memory, the number of bare die (chips) has significantly increased, expanding the area to 60mm x 60mm or larger. In 2024, heat spreaders with sizes greater than 35mm x 35mm will account for approximately 53%, and it is expected to rise to 61% by 2031.

In terms of market application, PC CPU/GPU heat spreaders currently hold the largest market share, accounting for 52% in 2024. However, the server/data center sector is growing at a faster pace, accounting for 35% in 2024 and projected to reach 50% by 2031.

The main global heat spreader manufacturers include Jentech Precision Industrial,

Honeywell, Shinko, Fujikura, I-Chiun, Favor Precision Technology, and Shandong Ruisi Precision Industry. The top five global manufacturers are expected to account for approximately 91% of the market share in 2024. In the coming years, competition in this industry is expected to intensify.

LP Information, Inc. (LPI) ' newest research report, the "Heat Spreaders for Semiconductor Packaging Industry Forecast" looks at past sales and reviews total world Heat Spreaders for Semiconductor Packaging sales in 2025, providing a comprehensive analysis by region and market sector of projected Heat Spreaders for Semiconductor Packaging sales for 2026 through 2032. With Heat Spreaders for Semiconductor Packaging sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Heat Spreaders for Semiconductor Packaging industry.

This Insight Report provides a comprehensive analysis of the global Heat Spreaders for Semiconductor Packaging landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Heat Spreaders for Semiconductor Packaging portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Heat Spreaders for Semiconductor Packaging market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Heat Spreaders for Semiconductor Packaging and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Heat Spreaders for Semiconductor Packaging.

This report presents a comprehensive overview, market shares, and growth opportunities of Heat Spreaders for Semiconductor Packaging market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Heat Spreader: Size (Above 35*35mm)

Heat Spreader: Size (Below 35*35mm)

Segmentation by Application:

PC CPU/GPU Package

Server/Data Center/AI Chip Package

Automotive SoC/FPGA Package

Gaming Console

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Shinko

Honeywell Advanced Materials

Jentech Precision Industrial

I-Chiun

Favor Precision Technology

Niching Industrial Corporation

Fastrong Technologies Corp.

ECE (Excel Cell Electronic)

Shandong Ruisi Precision Industry

HongRiDa Electronics (HRD)

TBT Co., Ltd

Key Questions Addressed in this Report

What is the 10-year outlook for the global Heat Spreaders for Semiconductor Packaging market?

What factors are driving Heat Spreaders for Semiconductor Packaging market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Heat Spreaders for Semiconductor Packaging market opportunities vary by end market size?

How does Heat Spreaders for Semiconductor Packaging break out by Type, by Application?

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