

# Global IC Package Heat Spreaders Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global IC Package Heat Spreaders market size was valued at US\$ 769 million in 2025 and is forecast to a readjusted size of US\$ 1371 million by 2032 with a CAGR of 8.7% during review period.

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.

Global key IC Package Heat Spreaders players cover Shinko, Honeywell Advanced Materials, Jentech Precision Industrial, I-Chiun, Favor Precision Technology and Shandong Ruisi Precision Industry etc. In terms of revenue, the global three largest companies occupied for a share nearly 85% in 2024.

In terms of heat spreaders size, in past few years, the large size (35\*35mm and Above) heat spreaders grew faster, the share will be 66.8% in 2031, from 51.15% in 2024.

In terms of materials, in 2024 the copper heat spreaders are dominating the market, hold 86.14% and in next six years, the stainless steel heat spreaders will grow faster.

In terms of application, in past few years, PC CPU/GPU is the largest application, hold 52.07% in 2024, while Server/Data Center are growing faster.

The future trends in technology will focus on personalized lifestyles, environmental sustainability, aging societies, and human-machine interface. As computer functions become more diverse, computation becomes more complex and faster, and new packaging processes emerge, the demand for heat spreaders with excellent heat dissipation capabilities will increase.

Heat spreaders are fundamental in thermal management in electronic design. In cases where natural convection is insufficient for timely heat dissipation, and forced convection using fans is not yet necessary, heat spreaders are widely used as a solution.

With the advancement of performance and miniaturization processes, the number of transistors in relation to the chip area has increased. This complexity in circuit design does not always result in a 100% improvement in performance. As a result, a significant portion of electrical energy is converted into thermal energy. Additionally, as process miniaturization progresses, leakage power consumption increases, leading to higher power requirements and waste heat generation within the same unit area. Furthermore,

with the trend towards compact desktop computers and all-in-one functionality, future mini PCs will need to handle multiple tasks such as information processing and multimedia performance simultaneously. Therefore, effective heat dissipation becomes crucial, making heat spreaders an indispensable solution for efficient thermal management.

Major thermal solution providers are actively exploring new market applications, including gaming consoles, communication devices, servers, automotive electronics, home electronics, and smartphones. The emerging trends of cloud services and the Internet of Things (IoT) in the market contribute to the increasing demand for servers and data centers. As a result, the need for effective heat dissipation in central processing units (CPUs) and connectors becomes more prominent and represents a promising area for further exploration.

This report is a detailed and comprehensive analysis for global IC Package Heat Spreaders market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Material 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 IC Package Heat Spreaders market size and forecasts, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global IC Package Heat Spreaders market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global IC Package Heat Spreaders market size and forecasts, by Material and by Application, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global IC Package Heat Spreaders market shares of main players, shipments in revenue (\$ Million), sales quantity (Million 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 IC Package Heat Spreaders  
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 IC Package Heat Spreaders 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 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), etc.

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

## **Market Segmentation**

IC Package Heat Spreaders market is split by Material and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Material, 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 Material

Cu Heat Spreader

Stainless Steel Heat Spreader

### Market segment by Size

Large Size (35\*35mm and Above)

Small Size (35\*35mm Below)

### Market segment by Application

PC CPU/GPU Package

Server/Data Center/AI Chip Package

Automotive SoC/FPGA Package

Gaming Console

Others

#### Major players covered

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

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 IC Package Heat Spreaders product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of IC Package Heat Spreaders, with price, sales quantity, revenue, and global market share of IC Package Heat Spreaders from 2021 to 2026.

Chapter 3, the IC Package Heat Spreaders competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the IC Package Heat Spreaders 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 Material and by Application, with sales market share and growth rate by Material, 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 IC Package Heat Spreaders market forecast, by regions, by Material, 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 IC Package Heat Spreaders.

Chapter 14 and 15, to describe IC Package Heat Spreaders sales channel, distributors, customers, research findings and conclusion.

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