

Global 3D Phase-Change Heat Sink 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 3D Phase-Change Heat Sink market size was valued at US\$ 362 million in 2025 and is forecast to a readjusted size of US\$ 506 million by 2032 with a CAGR of 4.9% during review period.

In 2025, global 3D phase-change heat sink production reached approximately 234 k units, the average price is 1500 usd/unit. 3D phase-change heat sink is an advanced thermal management device used to solve the heat dissipation problem of high power electronic equipment. It transfers heat efficiently through the phase change cycle of the internal working medium (liquid heat absorption and evaporation ? gas movement ? condensation and heat release ? liquid reflux). Its '3D' characteristics are reflected in the construction of a three-dimensional connected full-cavity phase change heat transfer system, which can achieve efficient heat transfer and uniform temperature distribution.

The downstream consumption of 3D phase change heat sinks is distributed as follows: electronics 34%, industry 29%, aerospace 25%, and others 12%.

This report is a detailed and comprehensive analysis for global 3D Phase-Change Heat Sink market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Structure 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 3D Phase-Change Heat Sink market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 3D Phase-Change Heat Sink market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 3D Phase-Change Heat Sink market size and forecasts, by Structure and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 3D Phase-Change Heat Sink market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 3D Phase-Change Heat Sink

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 3D Phase-Change Heat Sink 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 Celsia, Q-ATS, ACT, Boyd Corporation, T-Global Technology, Nextronics Engineering, Shenzhen Hongfucheng New Material, Shengjiu Group, Shanghai Eagtop Electronic Technology, etc.

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

Market Segmentation

3D Phase-Change Heat Sink market is split by Structure and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Structure, 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 Structure

Three-dimensional Fin

Pin-Fin

Stacked

Market segment by Mechanism

Heat Pipe

Vapor Chamber

Two-Phase Chamber

Market segment by Cooling

Passive

Active

Market segment by Application

Electronic

Industrial

Aerospace

Others

Major players covered

Celsia

Q-ATS

ACT

Boyd Corporation

T-Global Technology

Nextronics Engineering

Shenzhen Hongfucheng New Material

Shengjiu Group

Shanghai Eagtop Electronic Technology

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 3D Phase-Change Heat Sink product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 3D Phase-Change Heat Sink, with price, sales quantity, revenue, and global market share of 3D Phase-Change Heat Sink from

2021 to 2026.

Chapter 3, the 3D Phase-Change Heat Sink competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 3D Phase-Change Heat Sink 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 Structure and by Application, with sales market share and growth rate by Structure, 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 3D Phase-Change Heat Sink market forecast, by regions, by Structure, 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 3D Phase-Change Heat Sink.

Chapter 14 and 15, to describe 3D Phase-Change Heat Sink sales channel, distributors, customers, research findings and conclusion.

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