

Global 3D Phase-Change Heat Sink Market Growth 2026-2032

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Abstracts

The global 3D Phase-Change Heat Sink market size is predicted to grow from US\$ 344 million in 2025 to US\$ 489 million in 2032; it is expected to grow at a CAGR of 5.2% from 2026 to 2032.

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%.

United States market for 3D Phase-Change Heat Sink is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for 3D Phase-Change Heat Sink is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for 3D Phase-Change Heat Sink is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key 3D Phase-Change Heat Sink players cover Celsia, Q-ATS, ACT, Boyd

Corporation, T-Global Technology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “3D Phase-Change Heat Sink Industry Forecast” looks at past sales and reviews total world 3D Phase-Change Heat Sink sales in 2025, providing a comprehensive analysis by region and market sector of projected 3D Phase-Change Heat Sink sales for 2026 through 2032. With 3D Phase-Change Heat Sink sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 3D Phase-Change Heat Sink industry.

This Insight Report provides a comprehensive analysis of the global 3D Phase-Change Heat Sink 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 3D Phase-Change Heat Sink portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 3D Phase-Change Heat Sink market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 3D Phase-Change Heat Sink and breaks down the forecast by Structure, 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 3D Phase-Change Heat Sink.

This report presents a comprehensive overview, market shares, and growth opportunities of 3D Phase-Change Heat Sink market by product type, application, key manufacturers and key regions and countries.

Segmentation by Structure:

Three-dimensional Fin

Pin-Fin

Stacked

Segmentation by Mechanism:

Heat Pipe

Vapor Chamber

Two-Phase Chamber

Segmentation by Cooling:

Passive

Active

Segmentation by Application:

Electronic

Industrial

Aerospace

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.

Celsia

Q-ATS

ACT

Boyd Corporation

T-Global Technology

Nextronics Engineering

Shenzhen Hongfucheng New Material

Shengjiu Group

Shanghai Eagtop Electronic Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global 3D Phase-Change Heat Sink market?

What factors are driving 3D Phase-Change Heat Sink market growth, globally and by region?

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

How do 3D Phase-Change Heat Sink market opportunities vary by end market size?

How does 3D Phase-Change Heat Sink break out by Structure, by Application?

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