

Global Gaming Heat Sinks Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Gaming Heat Sinks market size is expected to reach \$ 2241 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

Gaming heat sinks are specialized thermal management devices designed specifically for gaming equipment, high-performance computing systems, and gaming hardware. Their primary function is to dissipate the heat generated during the operation of CPUs, GPUs, motherboards, power supplies, SSDs, and other high-power-consumption electronic components, thereby ensuring stable device operation, maximizing performance output, and extending hardware lifespan. Typically comprising heat sinks, heat pipes, vapor chambers (VCs), fans, liquid cooling modules, thermal interface materials, and control systems, these coolers achieve efficient heat dissipation through mechanisms such as air convection, liquid circulation, or phase-change heat transfer. Compared to standard consumer electronics coolers, gaming coolers place a greater emphasis on handling high heat flux densities, minimizing noise levels, generating high static pressure, incorporating aesthetic lighting effects, and maintaining stability during prolonged periods of full-load operation.

The upstream segment of the industry chain primarily consists of suppliers of raw materials and core components?including aluminum, copper, graphite thermal materials, heat pipes, vapor chambers (VCs), coolants, fan motors, bearings, PCB control chips, and RGB lighting modules. Among these, high-conductivity metal materials, micro-channel liquid cooling assemblies, and low-noise fan technologies exert a significant influence on overall product performance. The midstream segment comprises gaming cooler manufacturing and system integration enterprises, which specialize in the production of air coolers, All-in-One (AIO) liquid coolers, open-loop liquid cooling systems, VC-based thermal modules, and cooling components for gaming

laptops. The downstream segment encompasses a wide range of applications, including gaming desktop PCs, gaming laptops, gaming smartphones, GPUs/graphics cards, AI-powered gaming devices, high-performance workstations, and gaming peripherals. End-market demand is driven by advancements in the esports industry, AI graphics computing, 4K/8K gaming, VR/AR technologies, and high-refresh-rate display technologies; notably, the continuously rising power consumption of high-performance CPUs and GPUs is currently fueling a rapid surge in demand for liquid cooling solutions, high-density heat pipes, and VC-based thermal dissipation schemes.

In 2025, global sales volume for gaming heat sinks is projected to reach 57 million units, with a production capacity of approximately 81.5 million units. The average selling price is estimated at \$26 per unit, with an average gross margin ranging between 25% and 35%.

In terms of demand structure, gaming desktops, high-performance gaming laptops, discrete GPUs, and AI-centric creative PCs constitute the primary application areas for gaming cooling solutions. In recent years, advancements in AI game rendering, 4K/8K ultra-high-definition gaming, high-refresh-rate gaming monitors, and VR/AR devices have led to a continuous rise in CPU and GPU power consumption, thereby driving rapid growth in cooling demand. Notably, the power consumption of high-end GPUs has gradually approached and in some cases even exceeded 450W; consequently, traditional single-fan or standard air-cooling solutions are no longer sufficient to meet these requirements. As a result, demand for multi-heatpipe tower coolers, AIO liquid coolers with radiators larger than 360mm, and Vapor Chamber (VC) solutions has expanded rapidly. Concurrently, the growth of live streaming, content creation, local AI computing, and the esports industry has stimulated the high-performance PC market, further fueling the expansion of the gaming heat sink market.

Regarding product and technology roadmaps, the industry is currently transitioning from traditional air cooling toward liquid cooling, high-density heatpipe arrays, and intelligent cooling systems. Early gaming heat sinks primarily utilized a structure comprising aluminum fins combined with heatpipes; however, current high-end products are increasingly adopting Vapor Chambers, copper-base soldering, multi-fan arrays, and micro-channel liquid cooling technologies. All-in-One (AIO) liquid coolers have emerged as the mainstream solution for high-end gaming PCs, while open-loop liquid cooling systems continue to gain traction among hardware enthusiasts and the overclocking community. Meanwhile, features such as silent fans, intelligent PWM speed control, ARGB lighting synchronization, and software-based thermal management ecosystems are gradually becoming key differentiators for these products. Gaming laptops, for their

part, have begun to widely adopt a cooling architecture featuring Vapor Chambers combined with liquid metal thermal compounds and dual-fan configurations, in order to accommodate the concurrent industry trends of achieving both ultra-thin form factors and high-performance capabilities.

This report studies the global Gaming Heat Sinks production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Gaming Heat Sinks 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 Gaming Heat Sinks that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Gaming Heat Sinks total production and demand, 2021-2032, (K Units)

Global Gaming Heat Sinks total production value, 2021-2032, (USD Million)

Global Gaming Heat Sinks production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Gaming Heat Sinks consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Gaming Heat Sinks domestic production, consumption, key domestic manufacturers and share

Global Gaming Heat Sinks production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Gaming Heat Sinks production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Gaming Heat Sinks production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Gaming Heat Sinks 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 Corsair, Cooler Master, NZXT, Noctua, Listan GmbH?Co.KG, Thermaltake, Arctic, Antec, MSI, ASUS, 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 Gaming Heat Sinks market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Gaming Heat Sinks Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Gaming Heat Sinks Market, Segmentation by Type:

Air Heat Sinks

Liquid Heat Sinks

Heat Pipe Heat Sinks

Global Gaming Heat Sinks Market, Segmentation by Product Structure:

Tower Heat Sinks

Top-down Heat Sinks

All-in-One Liquid Cooler

Custom Loop Cooling

Passive Heat Sinks

Global Gaming Heat Sinks Market, Segmentation by Thermal Design Power:

?100W

100-200W

200-350W

?350W

Global Gaming Heat Sinks Market, Segmentation by Application:

Gaming Desktops

Gaming Laptops

Gaming Graphics Cards

Gaming Smartphones

AI Gaming Devices

Others

Companies Profiled:

Corsair

Cooler Master

NZXT

Noctua

Listan GmbH?Co.KG

Thermaltake

Arctic

Antec

MSI

ASUS

Razer

PC Partner Group

DeepCool

Pccooler

Scythe

Thermalright

Huntkey

Key Questions Answered:

1. How big is the global Gaming Heat Sinks market?

2. What is the demand of the global Gaming Heat Sinks market?
3. What is the year over year growth of the global Gaming Heat Sinks market?
4. What is the production and production value of the global Gaming Heat Sinks market?
5. Who are the key producers in the global Gaming Heat Sinks market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Gaming Heat Sinks Introduction
- 1.2 World Gaming Heat Sinks Supply & Forecast
 - 1.2.1 World Gaming Heat Sinks Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Gaming Heat Sinks Production (2021-2032)
 - 1.2.3 World Gaming Heat Sinks Pricing Trends (2021-2032)
- 1.3 World Gaming Heat Sinks Production by Region (Based on Production Site)
 - 1.3.1 World Gaming Heat Sinks Production Value by Region (2021-2032)
 - 1.3.2 World Gaming Heat Sinks Production by Region (2021-2032)
 - 1.3.3 World Gaming Heat Sinks Average Price by Region (2021-2032)
 - 1.3.4 North America Gaming Heat Sinks Production (2021-2032)
 - 1.3.5 Europe Gaming Heat Sinks Production (2021-2032)
 - 1.3.6 China Gaming Heat Sinks Production (2021-2032)
 - 1.3.7 Japan Gaming Heat Sinks Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Gaming Heat Sinks Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Gaming Heat Sinks Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Gaming Heat Sinks Demand (2021-2032)
- 2.2 World Gaming Heat Sinks Consumption by Region
 - 2.2.1 World Gaming Heat Sinks Consumption by Region (2021-2026)
 - 2.2.2 World Gaming Heat Sinks Consumption Forecast by Region (2027-2032)
- 2.3 United States Gaming Heat Sinks Consumption (2021-2032)
- 2.4 China Gaming Heat Sinks Consumption (2021-2032)
- 2.5 Europe Gaming Heat Sinks Consumption (2021-2032)
- 2.6 Japan Gaming Heat Sinks Consumption (2021-2032)
- 2.7 South Korea Gaming Heat Sinks Consumption (2021-2032)
- 2.8 ASEAN Gaming Heat Sinks Consumption (2021-2032)
- 2.9 India Gaming Heat Sinks Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Gaming Heat Sinks Production Value by Manufacturer (2021-2026)

- 3.2 World Gaming Heat Sinks Production by Manufacturer (2021-2026)
- 3.3 World Gaming Heat Sinks Average Price by Manufacturer (2021-2026)
- 3.4 Gaming Heat Sinks Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Gaming Heat Sinks Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Gaming Heat Sinks in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Gaming Heat Sinks in 2025
- 3.6 Gaming Heat Sinks Market: Overall Company Footprint Analysis
 - 3.6.1 Gaming Heat Sinks Market: Region Footprint
 - 3.6.2 Gaming Heat Sinks Market: Company Product Type Footprint
 - 3.6.3 Gaming Heat Sinks Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Gaming Heat Sinks Production Value Comparison
 - 4.1.1 United States VS China: Gaming Heat Sinks Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Gaming Heat Sinks Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Gaming Heat Sinks Production Comparison
 - 4.2.1 United States VS China: Gaming Heat Sinks Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Gaming Heat Sinks Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Gaming Heat Sinks Consumption Comparison
 - 4.3.1 United States VS China: Gaming Heat Sinks Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Gaming Heat Sinks Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Gaming Heat Sinks Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Gaming Heat Sinks Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Gaming Heat Sinks Production Value (2021-2026)

4.4.3 United States Based Manufacturers Gaming Heat Sinks Production (2021-2026)

4.5 China Based Gaming Heat Sinks Manufacturers and Market Share

4.5.1 China Based Gaming Heat Sinks Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Gaming Heat Sinks Production Value (2021-2026)

4.5.3 China Based Manufacturers Gaming Heat Sinks Production (2021-2026)

4.6 Rest of World Based Gaming Heat Sinks Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Gaming Heat Sinks Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Gaming Heat Sinks Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Gaming Heat Sinks Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Gaming Heat Sinks Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Air Heat Sinks

5.2.2 Liquid Heat Sinks

5.2.3 Heat Pipe Heat Sinks

5.3 Market Segment by Type

5.3.1 World Gaming Heat Sinks Production by Type (2021-2032)

5.3.2 World Gaming Heat Sinks Production Value by Type (2021-2032)

5.3.3 World Gaming Heat Sinks Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PRODUCT STRUCTURE

6.1 World Gaming Heat Sinks Market Size Overview by Product Structure: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Product Structure

6.2.1 Tower Heat Sinks

6.2.2 Top-down Heat Sinks

6.2.3 All-in-One Liquid Cooler

6.2.4 Custom Loop Cooling

6.2.5 Passive Heat Sinks

6.3 Market Segment by Product Structure

- 6.3.1 World Gaming Heat Sinks Production by Product Structure (2021-2032)
- 6.3.2 World Gaming Heat Sinks Production Value by Product Structure (2021-2032)
- 6.3.3 World Gaming Heat Sinks Average Price by Product Structure (2021-2032)

7 MARKET ANALYSIS BY THERMAL DESIGN POWER

- 7.1 World Gaming Heat Sinks Market Size Overview by Thermal Design Power: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Thermal Design Power
 - 7.2.1 ?100W
 - 7.2.2 100-200W
 - 7.2.3 200-350W
 - 7.2.4 ?350W
- 7.3 Market Segment by Thermal Design Power
 - 7.3.1 World Gaming Heat Sinks Production by Thermal Design Power (2021-2032)
 - 7.3.2 World Gaming Heat Sinks Production Value by Thermal Design Power (2021-2032)
 - 7.3.3 World Gaming Heat Sinks Average Price by Thermal Design Power (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Gaming Heat Sinks Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Gaming Desktops
 - 8.2.2 Gaming Laptops
 - 8.2.3 Gaming Graphics Cards
 - 8.2.4 Gaming Smartphones
 - 8.2.5 AI Gaming Devices
 - 8.2.6 Others
- 8.3 Market Segment by Application
 - 8.3.1 World Gaming Heat Sinks Production by Application (2021-2032)
 - 8.3.2 World Gaming Heat Sinks Production Value by Application (2021-2032)
 - 8.3.3 World Gaming Heat Sinks Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Corsair
 - 9.1.1 Corsair Details

- 9.1.2 Corsair Major Business
- 9.1.3 Corsair Gaming Heat Sinks Product and Services
- 9.1.4 Corsair Gaming Heat Sinks Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Corsair Recent Developments/Updates
- 9.1.6 Corsair Competitive Strengths & Weaknesses
- 9.2 Cooler Master
 - 9.2.1 Cooler Master Details
 - 9.2.2 Cooler Master Major Business
 - 9.2.3 Cooler Master Gaming Heat Sinks Product and Services
 - 9.2.4 Cooler Master Gaming Heat Sinks Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Cooler Master Recent Developments/Updates
 - 9.2.6 Cooler Master Competitive Strengths & Weaknesses
- 9.3 NZXT
 - 9.3.1 NZXT Details
 - 9.3.2 NZXT Major Business
 - 9.3.3 NZXT Gaming Heat Sinks Product and Services
 - 9.3.4 NZXT Gaming Heat Sinks Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 NZXT Recent Developments/Updates
 - 9.3.6 NZXT Competitive Strengths & Weaknesses
- 9.4 Noctua
 - 9.4.1 Noctua Details
 - 9.4.2 Noctua Major Business
 - 9.4.3 Noctua Gaming Heat Sinks Product and Services
 - 9.4.4 Noctua Gaming Heat Sinks Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Noctua Recent Developments/Updates
 - 9.4.6 Noctua Competitive Strengths & Weaknesses
- 9.5 Listan GmbH?Co.KG
 - 9.5.1 Listan GmbH?Co.KG Details
 - 9.5.2 Listan GmbH?Co.KG Major Business
 - 9.5.3 Listan GmbH?Co.KG Gaming Heat Sinks Product and Services
 - 9.5.4 Listan GmbH?Co.KG Gaming Heat Sinks Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Listan GmbH?Co.KG Recent Developments/Updates
 - 9.5.6 Listan GmbH?Co.KG Competitive Strengths & Weaknesses
- 9.6 Thermaltake

- 9.6.1 Thermaltake Details
- 9.6.2 Thermaltake Major Business
- 9.6.3 Thermaltake Gaming Heat Sinks Product and Services
- 9.6.4 Thermaltake Gaming Heat Sinks Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Thermaltake Recent Developments/Updates
- 9.6.6 Thermaltake Competitive Strengths & Weaknesses
- 9.7 Arctic
 - 9.7.1 Arctic Details
 - 9.7.2 Arctic Major Business
 - 9.7.3 Arctic Gaming Heat Sinks Product and Services
 - 9.7.4 Arctic Gaming Heat Sinks Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Arctic Recent Developments/Updates
 - 9.7.6 Arctic Competitive Strengths & Weaknesses
- 9.8 Antec
 - 9.8.1 Antec Details
 - 9.8.2 Antec Major Business
 - 9.8.3 Antec Gaming Heat Sinks Product and Services
 - 9.8.4 Antec Gaming Heat Sinks Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Antec Recent Developments/Updates
 - 9.8.6 Antec Competitive Strengths & Weaknesses
- 9.9 MSI
 - 9.9.1 MSI Details
 - 9.9.2 MSI Major Business
 - 9.9.3 MSI Gaming Heat Sinks Product and Services
 - 9.9.4 MSI Gaming Heat Sinks Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 MSI Recent Developments/Updates
 - 9.9.6 MSI Competitive Strengths & Weaknesses
- 9.10 ASUS
 - 9.10.1 ASUS Details
 - 9.10.2 ASUS Major Business
 - 9.10.3 ASUS Gaming Heat Sinks Product and Services
 - 9.10.4 ASUS Gaming Heat Sinks Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 ASUS Recent Developments/Updates
 - 9.10.6 ASUS Competitive Strengths & Weaknesses

9.11 Razer

9.11.1 Razer Details

9.11.2 Razer Major Business

9.11.3 Razer Gaming Heat Sinks Product and Services

9.11.4 Razer Gaming Heat Sinks Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Razer Recent Developments/Updates

9.11.6 Razer Competitive Strengths & Weaknesses

9.12 PC Partner Group

9.12.1 PC Partner Group Details

9.12.2 PC Partner Group Major Business

9.12.3 PC Partner Group Gaming Heat Sinks Product and Services

9.12.4 PC Partner Group Gaming Heat Sinks Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 PC Partner Group Recent Developments/Updates

9.12.6 PC Partner Group Competitive Strengths & Weaknesses

9.13 DeepCool

9.13.1 DeepCool Details

9.13.2 DeepCool Major Business

9.13.3 DeepCool Gaming Heat Sinks Product and Services

9.13.4 DeepCool Gaming Heat Sinks Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 DeepCool Recent Developments/Updates

9.13.6 DeepCool Competitive Strengths & Weaknesses

9.14 Pccooler

9.14.1 Pccooler Details

9.14.2 Pccooler Major Business

9.14.3 Pccooler Gaming Heat Sinks Product and Services

9.14.4 Pccooler Gaming Heat Sinks Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Pccooler Recent Developments/Updates

9.14.6 Pccooler Competitive Strengths & Weaknesses

9.15 Scythe

9.15.1 Scythe Details

9.15.2 Scythe Major Business

9.15.3 Scythe Gaming Heat Sinks Product and Services

9.15.4 Scythe Gaming Heat Sinks Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Scythe Recent Developments/Updates

9.15.6 Scythe Competitive Strengths & Weaknesses

9.16 Thermalright

9.16.1 Thermalright Details

9.16.2 Thermalright Major Business

9.16.3 Thermalright Gaming Heat Sinks Product and Services

9.16.4 Thermalright Gaming Heat Sinks Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Thermalright Recent Developments/Updates

9.16.6 Thermalright Competitive Strengths & Weaknesses

9.17 Huntkey

9.17.1 Huntkey Details

9.17.2 Huntkey Major Business

9.17.3 Huntkey Gaming Heat Sinks Product and Services

9.17.4 Huntkey Gaming Heat Sinks Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Huntkey Recent Developments/Updates

9.17.6 Huntkey Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Gaming Heat Sinks Industry Chain

10.2 Gaming Heat Sinks Upstream Analysis

10.2.1 Gaming Heat Sinks Core Raw Materials

10.2.2 Main Manufacturers of Gaming Heat Sinks Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Gaming Heat Sinks Production Mode

10.6 Gaming Heat Sinks Procurement Model

10.7 Gaming Heat Sinks Industry Sales Model and Sales Channels

10.7.1 Gaming Heat Sinks Sales Model

10.7.2 Gaming Heat Sinks Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Gaming Heat Sinks Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Gaming Heat Sinks Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Gaming Heat Sinks Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Gaming Heat Sinks Production Value Market Share by Region (2021-2026)
- Table 5. World Gaming Heat Sinks Production Value Market Share by Region (2027-2032)
- Table 6. World Gaming Heat Sinks Production by Region (2021-2026) & (K Units)
- Table 7. World Gaming Heat Sinks Production by Region (2027-2032) & (K Units)
- Table 8. World Gaming Heat Sinks Production Market Share by Region (2021-2026)
- Table 9. World Gaming Heat Sinks Production Market Share by Region (2027-2032)
- Table 10. World Gaming Heat Sinks Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Gaming Heat Sinks Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Gaming Heat Sinks Major Market Trends
- Table 13. World Gaming Heat Sinks Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Gaming Heat Sinks Consumption by Region (2021-2026) & (K Units)
- Table 15. World Gaming Heat Sinks Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Gaming Heat Sinks Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Gaming Heat Sinks Producers in 2025
- Table 18. World Gaming Heat Sinks Production by Manufacturer (2021-2026) & (K Units)
- Table 19. Production Market Share of Key Gaming Heat Sinks Producers in 2025
- Table 20. World Gaming Heat Sinks Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 21. Global Gaming Heat Sinks Company Evaluation Quadrant
- Table 22. World Gaming Heat Sinks Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Gaming Heat Sinks Production Site of Key Manufacturer
- Table 24. Gaming Heat Sinks Market: Company Product Type Footprint

Table 25. Gaming Heat Sinks Market: Company Product Application Footprint
Table 26. Gaming Heat Sinks Competitive Factors
Table 27. Gaming Heat Sinks New Entrant and Capacity Expansion Plans
Table 28. Gaming Heat Sinks Mergers & Acquisitions Activity
Table 29. United States VS China Gaming Heat Sinks Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Gaming Heat Sinks Production Comparison, (2021 & 2025 & 2032) & (K Units)
Table 31. United States VS China Gaming Heat Sinks Consumption Comparison, (2021 & 2025 & 2032) & (K Units)
Table 32. United States Based Gaming Heat Sinks Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Gaming Heat Sinks Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Gaming Heat Sinks Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Gaming Heat Sinks Production (2021-2026) & (K Units)
Table 36. United States Based Manufacturers Gaming Heat Sinks Production Market Share (2021-2026)
Table 37. China Based Gaming Heat Sinks Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Gaming Heat Sinks Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Gaming Heat Sinks Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Gaming Heat Sinks Production, (2021-2026) & (K Units)
Table 41. China Based Manufacturers Gaming Heat Sinks Production Market Share (2021-2026)
Table 42. Rest of World Based Gaming Heat Sinks Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Gaming Heat Sinks Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Gaming Heat Sinks Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Gaming Heat Sinks Production, (2021-2026) & (K Units)
Table 46. Rest of World Based Manufacturers Gaming Heat Sinks Production Market

Share (2021-2026)

Table 47. World Gaming Heat Sinks Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Gaming Heat Sinks Production by Type (2021-2026) & (K Units)

Table 49. World Gaming Heat Sinks Production by Type (2027-2032) & (K Units)

Table 50. World Gaming Heat Sinks Production Value by Type (2021-2026) & (USD Million)

Table 51. World Gaming Heat Sinks Production Value by Type (2027-2032) & (USD Million)

Table 52. World Gaming Heat Sinks Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Gaming Heat Sinks Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Gaming Heat Sinks Production Value by Product Structure, (USD Million), 2021 & 2025 & 2032

Table 55. World Gaming Heat Sinks Production by Product Structure (2021-2026) & (K Units)

Table 56. World Gaming Heat Sinks Production by Product Structure (2027-2032) & (K Units)

Table 57. World Gaming Heat Sinks Production Value by Product Structure (2021-2026) & (USD Million)

Table 58. World Gaming Heat Sinks Production Value by Product Structure (2027-2032) & (USD Million)

Table 59. World Gaming Heat Sinks Average Price by Product Structure (2021-2026) & (US\$/Unit)

Table 60. World Gaming Heat Sinks Average Price by Product Structure (2027-2032) & (US\$/Unit)

Table 61. World Gaming Heat Sinks Production Value by Thermal Design Power, (USD Million), 2021 & 2025 & 2032

Table 62. World Gaming Heat Sinks Production by Thermal Design Power (2021-2026) & (K Units)

Table 63. World Gaming Heat Sinks Production by Thermal Design Power (2027-2032) & (K Units)

Table 64. World Gaming Heat Sinks Production Value by Thermal Design Power (2021-2026) & (USD Million)

Table 65. World Gaming Heat Sinks Production Value by Thermal Design Power (2027-2032) & (USD Million)

Table 66. World Gaming Heat Sinks Average Price by Thermal Design Power (2021-2026) & (US\$/Unit)

Table 67. World Gaming Heat Sinks Average Price by Thermal Design Power (2027-2032) & (US\$/Unit)

Table 68. World Gaming Heat Sinks Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Gaming Heat Sinks Production by Application (2021-2026) & (K Units)

Table 70. World Gaming Heat Sinks Production by Application (2027-2032) & (K Units)

Table 71. World Gaming Heat Sinks Production Value by Application (2021-2026) & (USD Million)

Table 72. World Gaming Heat Sinks Production Value by Application (2027-2032) & (USD Million)

Table 73. World Gaming Heat Sinks Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Gaming Heat Sinks Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Corsair Basic Information, Manufacturing Base and Competitors

Table 76. Corsair Major Business

Table 77. Corsair Gaming Heat Sinks Product and Services

Table 78. Corsair Gaming Heat Sinks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Corsair Recent Developments/Updates

Table 80. Corsair Competitive Strengths & Weaknesses

Table 81. Cooler Master Basic Information, Manufacturing Base and Competitors

Table 82. Cooler Master Major Business

Table 83. Cooler Master Gaming Heat Sinks Product and Services

Table 84. Cooler Master Gaming Heat Sinks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Cooler Master Recent Developments/Updates

Table 86. Cooler Master Competitive Strengths & Weaknesses

Table 87. NZXT Basic Information, Manufacturing Base and Competitors

Table 88. NZXT Major Business

Table 89. NZXT Gaming Heat Sinks Product and Services

Table 90. NZXT Gaming Heat Sinks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. NZXT Recent Developments/Updates

Table 92. NZXT Competitive Strengths & Weaknesses

Table 93. Noctua Basic Information, Manufacturing Base and Competitors

Table 94. Noctua Major Business

Table 95. Noctua Gaming Heat Sinks Product and Services

Table 96. Noctua Gaming Heat Sinks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Noctua Recent Developments/Updates

Table 98. Noctua Competitive Strengths & Weaknesses
Table 99. Listan GmbH&Co.KG Basic Information, Manufacturing Base and Competitors
Table 100. Listan GmbH&Co.KG Major Business
Table 101. Listan GmbH&Co.KG Gaming Heat Sinks Product and Services
Table 102. Listan GmbH&Co.KG Gaming Heat Sinks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Listan GmbH&Co.KG Recent Developments/Updates
Table 104. Listan GmbH&Co.KG Competitive Strengths & Weaknesses
Table 105. Thermaltake Basic Information, Manufacturing Base and Competitors
Table 106. Thermaltake Major Business
Table 107. Thermaltake Gaming Heat Sinks Product and Services
Table 108. Thermaltake Gaming Heat Sinks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Thermaltake Recent Developments/Updates
Table 110. Thermaltake Competitive Strengths & Weaknesses
Table 111. Arctic Basic Information, Manufacturing Base and Competitors
Table 112. Arctic Major Business
Table 113. Arctic Gaming Heat Sinks Product and Services
Table 114. Arctic Gaming Heat Sinks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Arctic Recent Developments/Updates
Table 116. Arctic Competitive Strengths & Weaknesses
Table 117. Antec Basic Information, Manufacturing Base and Competitors
Table 118. Antec Major Business
Table 119. Antec Gaming Heat Sinks Product and Services
Table 120. Antec Gaming Heat Sinks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Antec Recent Developments/Updates
Table 122. Antec Competitive Strengths & Weaknesses
Table 123. MSI Basic Information, Manufacturing Base and Competitors
Table 124. MSI Major Business
Table 125. MSI Gaming Heat Sinks Product and Services
Table 126. MSI Gaming Heat Sinks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. MSI Recent Developments/Updates
Table 128. MSI Competitive Strengths & Weaknesses
Table 129. ASUS Basic Information, Manufacturing Base and Competitors
Table 130. ASUS Major Business

Table 131. ASUS Gaming Heat Sinks Product and Services
Table 132. ASUS Gaming Heat Sinks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. ASUS Recent Developments/Updates
Table 134. ASUS Competitive Strengths & Weaknesses
Table 135. Razer Basic Information, Manufacturing Base and Competitors
Table 136. Razer Major Business
Table 137. Razer Gaming Heat Sinks Product and Services
Table 138. Razer Gaming Heat Sinks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Razer Recent Developments/Updates
Table 140. Razer Competitive Strengths & Weaknesses
Table 141. PC Partner Group Basic Information, Manufacturing Base and Competitors
Table 142. PC Partner Group Major Business
Table 143. PC Partner Group Gaming Heat Sinks Product and Services
Table 144. PC Partner Group Gaming Heat Sinks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. PC Partner Group Recent Developments/Updates
Table 146. PC Partner Group Competitive Strengths & Weaknesses
Table 147. DeepCool Basic Information, Manufacturing Base and Competitors
Table 148. DeepCool Major Business
Table 149. DeepCool Gaming Heat Sinks Product and Services
Table 150. DeepCool Gaming Heat Sinks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. DeepCool Recent Developments/Updates
Table 152. DeepCool Competitive Strengths & Weaknesses
Table 153. Pccooler Basic Information, Manufacturing Base and Competitors
Table 154. Pccooler Major Business
Table 155. Pccooler Gaming Heat Sinks Product and Services
Table 156. Pccooler Gaming Heat Sinks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Pccooler Recent Developments/Updates
Table 158. Pccooler Competitive Strengths & Weaknesses
Table 159. Scythe Basic Information, Manufacturing Base and Competitors
Table 160. Scythe Major Business
Table 161. Scythe Gaming Heat Sinks Product and Services
Table 162. Scythe Gaming Heat Sinks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Scythe Recent Developments/Updates
Table 164. Scythe Competitive Strengths & Weaknesses
Table 165. Thermalright Basic Information, Manufacturing Base and Competitors
Table 166. Thermalright Major Business
Table 167. Thermalright Gaming Heat Sinks Product and Services
Table 168. Thermalright Gaming Heat Sinks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 169. Thermalright Recent Developments/Updates
Table 170. Thermalright Competitive Strengths & Weaknesses
Table 171. Huntkey Basic Information, Manufacturing Base and Competitors
Table 172. Huntkey Major Business
Table 173. Huntkey Gaming Heat Sinks Product and Services
Table 174. Huntkey Gaming Heat Sinks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 175. Huntkey Recent Developments/Updates
Table 176. Huntkey Competitive Strengths & Weaknesses
Table 177. Global Key Players of Gaming Heat Sinks Upstream (Raw Materials)
Table 178. Global Gaming Heat Sinks Typical Customers
Table 179. Gaming Heat Sinks Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Gaming Heat Sinks Picture

Figure 2. World Gaming Heat Sinks Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Gaming Heat Sinks Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Gaming Heat Sinks Production (2021-2032) & (K Units)

Figure 5. World Gaming Heat Sinks Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Gaming Heat Sinks Production Value Market Share by Region (2021-2032)

Figure 7. World Gaming Heat Sinks Production Market Share by Region (2021-2032)

Figure 8. North America Gaming Heat Sinks Production (2021-2032) & (K Units)

Figure 9. Europe Gaming Heat Sinks Production (2021-2032) & (K Units)

Figure 10. China Gaming Heat Sinks Production (2021-2032) & (K Units)

Figure 11. Japan Gaming Heat Sinks Production (2021-2032) & (K Units)

Figure 12. Gaming Heat Sinks Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Gaming Heat Sinks Consumption (2021-2032) & (K Units)

Figure 15. World Gaming Heat Sinks Consumption Market Share by Region (2021-2032)

Figure 16. United States Gaming Heat Sinks Consumption (2021-2032) & (K Units)

Figure 17. China Gaming Heat Sinks Consumption (2021-2032) & (K Units)

Figure 18. Europe Gaming Heat Sinks Consumption (2021-2032) & (K Units)

Figure 19. Japan Gaming Heat Sinks Consumption (2021-2032) & (K Units)

Figure 20. South Korea Gaming Heat Sinks Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Gaming Heat Sinks Consumption (2021-2032) & (K Units)

Figure 22. India Gaming Heat Sinks Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Gaming Heat Sinks by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Gaming Heat Sinks Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Gaming Heat Sinks Markets in 2025

Figure 26. United States VS China: Gaming Heat Sinks Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Gaming Heat Sinks Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Gaming Heat Sinks Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Gaming Heat Sinks Production Market Share 2025

Figure 30. China Based Manufacturers Gaming Heat Sinks Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Gaming Heat Sinks Production Market Share 2025

Figure 32. World Gaming Heat Sinks Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Gaming Heat Sinks Production Value Market Share by Type in 2025

Figure 34. Air Heat Sinks

Figure 35. Liquid Heat Sinks

Figure 36. Heat Pipe Heat Sinks

Figure 37. World Gaming Heat Sinks Production Market Share by Type (2021-2032)

Figure 38. World Gaming Heat Sinks Production Value Market Share by Type (2021-2032)

Figure 39. World Gaming Heat Sinks Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Gaming Heat Sinks Production Value by Product Structure, (USD Million), 2021 & 2025 & 2032

Figure 41. World Gaming Heat Sinks Production Value Market Share by Product Structure in 2025

Figure 42. Tower Heat Sinks

Figure 43. Top-down Heat Sinks

Figure 44. All-in-One Liquid Cooler

Figure 45. Custom Loop Cooling

Figure 46. Passive Heat Sinks

Figure 47. World Gaming Heat Sinks Production Market Share by Product Structure (2021-2032)

Figure 48. World Gaming Heat Sinks Production Value Market Share by Product Structure (2021-2032)

Figure 49. World Gaming Heat Sinks Average Price by Product Structure (2021-2032) & (US\$/Unit)

Figure 50. World Gaming Heat Sinks Production Value by Thermal Design Power, (USD Million), 2021 & 2025 & 2032

Figure 51. World Gaming Heat Sinks Production Value Market Share by Thermal Design Power in 2025

Figure 52. ?100W

Figure 53. 100-200W

Figure 54. 200-350W

Figure 55. >350W

Figure 56. World Gaming Heat Sinks Production Market Share by Thermal Design Power (2021-2032)

Figure 57. World Gaming Heat Sinks Production Value Market Share by Thermal Design Power (2021-2032)

Figure 58. World Gaming Heat Sinks Average Price by Thermal Design Power (2021-2032) & (US\$/Unit)

Figure 59. World Gaming Heat Sinks Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World Gaming Heat Sinks Production Value Market Share by Application in 2025

Figure 61. Gaming Desktops

Figure 62. Gaming Laptops

Figure 63. Gaming Graphics Cards

Figure 64. Gaming Smartphones

Figure 65. AI Gaming Devices

Figure 66. Others

Figure 67. World Gaming Heat Sinks Production Market Share by Application (2021-2032)

Figure 68. World Gaming Heat Sinks Production Value Market Share by Application (2021-2032)

Figure 69. World Gaming Heat Sinks Average Price by Application (2021-2032) & (US\$/Unit)

Figure 70. Gaming Heat Sinks Industry Chain

Figure 71. Gaming Heat Sinks Procurement Model

Figure 72. Gaming Heat Sinks Sales Model

Figure 73. Gaming Heat Sinks Sales Channels, Direct Sales, and Distribution

Figure 74. Methodology

Figure 75. Research Process and Data Source

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