

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

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## Abstracts

The global Communication Heat Sinks market size is expected to reach \$ 4453 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

Communication heat sinks are thermal management components utilized within communication equipment; their primary function is to rapidly conduct and dissipate the heat generated during device operation into the surrounding air or another cooling medium, thereby ensuring system stability and extending the operational lifespan of electronic components. The core principle involves using highly thermally conductive materials?such as aluminum, copper, or graphite composites?to transfer heat generated by chips, power modules, RF devices, and power supply units to heat dissipation fins, where thermal exchange is subsequently achieved through natural convection, forced air cooling, liquid cooling, or similar methods. Communication heat sinks are widely deployed across various sectors, including 5G base stations, data center switches, servers, optical communication equipment, routers, wireless access devices, and edge computing terminals. As communication equipment evolves toward higher frequencies, increased power densities, and greater miniaturization, heat sinks must simultaneously satisfy requirements for high thermal conductivity, lightweight design, structural compactness, and electromagnetic compatibility. Currently, the industry commonly employs technological approaches such as aluminum extrusion profiles, die casting, heat pipe welding, vapor chambers (VCs), and liquid cooling plates to meet the diverse needs of different power levels and application scenarios. Communication heat sinks not only influence the operational stability of individual devices but also directly impact network reliability, energy consumption levels, and the overall longevity of communication systems; consequently, they have emerged as critical ancillary components within communication infrastructure.

The upstream segment of the industry chain primarily comprises suppliers of raw materials and components—including aluminum, copper, graphite, thermal interface materials, heat pipes, vapor chambers, liquid cooling plates, and cooling fans—as well as manufacturers of CNC machining, surface treatment, die casting, and welding equipment. The midstream segment consists of communication heat sink manufacturers responsible for structural design, thermal simulation, mold development, precision machining, and the integration of thermal modules; their product portfolios encompass extruded aluminum heat sinks, heat pipe assemblies, vapor chamber-based heat sinks, and liquid cooling systems. The downstream segment focuses on end-use applications within areas such as 5G base stations, communication power supplies, data center servers, optical modules, network switches, wireless networking devices, and edge computing equipment; major sources of demand within this segment include leading communication equipment manufacturers—such as Huawei, ZTE, Ericsson, and Nokia—as well as large-scale cloud computing and data center operators.

In 2025, the global sales volume of communication heat sinks is projected to reach 83 million units, with a production capacity of approximately 115 million units; the average selling price is estimated at \$34 per unit, with an average gross profit margin ranging between 25% and 35%.

In terms of demand structure, 5G base stations, AI data centers, and optical communication equipment currently represent the primary sources of growth for communication heat sinks. Notably, the rapid advancement of AI servers and 800G/1.6T optical modules has significantly elevated the power consumption levels of communication equipment, thereby driving a substantial increase in demand for high heat flux density thermal management solutions. During the traditional 4G era, individual devices had relatively low power consumption, and standard air cooling was sufficient to meet requirements; however, with the advent of the 5G-A and AI computing era, demand for large-scale die-cast heat sinks, vapor chambers (VCs), and liquid cooling plates has surged. Data center switching chips, GPU clusters, and edge computing nodes have emerged as key drivers for market expansion. Furthermore, the global growth of cloud computing, the Industrial Internet, autonomous driving communication systems, and satellite communication has further broadened the scope of applications for high-performance communication heat sinks.

Product and technology roadmaps are currently undergoing a gradual transition from traditional air cooling toward liquid cooling, high-conductivity materials, and composite thermal management structures. Early communication equipment primarily utilized

extruded aluminum heat sinks and standard air-cooling schemes; however, as chip heat flux densities continue to rise, the industry has begun to widely adopt heat pipes, vapor chambers, microchannel liquid cooling, and immersion liquid cooling technologies. Currently, 5G AAU units extensively employ large die-cast aluminum heat sinks, whereas AI servers and high-speed switches are increasingly shifting toward cold plate liquid cooling and vapor chamber solutions. In terms of materials, the industry is also evolving from the sole reliance on aluminum toward the use of copper, graphite, composite thermal materials, and phase-change materials to enhance thermal conductivity efficiency while simultaneously reducing weight. Moving forward, highly integrated, miniaturized, low-thermal-resistance, and energy-efficient thermal management structures are expected to become the primary focus of technological evolution.

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

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

#### Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Communication 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 Boyd Corporation, nVent Schroff, Delta Electronics, AVC, Fischer Elektronik, Wakefield Thermal, TE Connectivity, Sunon, Noctua, Zalman, 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 Communication 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 Communication Heat Sinks Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Communication Heat Sinks Market, Segmentation by Type:

Passive Heat Sink

Active Heat Sink

Others

### Global Communication Heat Sinks Market, Segmentation by Material:

Aluminum Heat Sink

Copper Heat Sink

Aluminum-Copper Composite Heat Sink

### Global Communication Heat Sinks Market, Segmentation by Thermal Power Capacity:

?50W

50-300W

300-1000W

?1000W

### Global Communication Heat Sinks Market, Segmentation by Application:

Communication Base Stations

Data Centers

Optical Communication Equipment

Network Communication Equipment

Wireless Communication Equipment

Consumer Communication Electronics

Others

#### Companies Profiled:

Boyd Corporation

nVent Schroff

Delta Electronics

AVC

Fischer Elektronik

Wakefield Thermal

TE Connectivity

Sunon

Noctua

Zalman

Cooler Master

ATS

Wakefield-Vette

Radian Thermal

Getec Industrial

Fujikura

Frd Science & Technology

JONES Tech

Speed Wireless Technolog

Lingyi Itech

**Key Questions Answered:**

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

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