

Global Communication Heat Sinks 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 Communication Heat Sinks market size was valued at US\$ 2904 million in 2025 and is forecast to a readjusted size of US\$ 4453 million by 2032 with a CAGR of 6.3% during review period.

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

Global Communication Heat Sinks 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 Communication Heat Sinks market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Communication Heat Sinks 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 Communication Heat Sinks

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 Communication Heat Sinks 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 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.

Market Segmentation

Communication Heat Sinks market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

Passive Heat Sink

Active Heat Sink

Others

Market segment by Material

Aluminum Heat Sink

Copper Heat Sink

Aluminum-Copper Composite Heat Sink

Market segment by Thermal Power Capacity

?50W

50-300W

300-1000W

?1000W

Market segment by Application

Communication Base Stations

Data Centers

Optical Communication Equipment

Network Communication Equipment

Wireless Communication Equipment

Consumer Communication Electronics

Others

Major players covered

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

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 Communication Heat Sinks product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Communication Heat Sinks 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 Type and by Application, with sales market share and growth rate by Type, 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 Communication Heat Sinks market forecast, by regions, by Type, 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 Communication Heat Sinks.

Chapter 14 and 15, to describe Communication Heat Sinks sales channel, distributors, customers, research findings and conclusion.

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