

# Global DC Brushless Server Cooling Fan 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 DC Brushless Server Cooling Fan market size was valued at US\$ 8264 million in 2025 and is forecast to a readjusted size of US\$ 11512 million by 2032 with a CAGR of 5.0% during review period.

DC brushless server cooling fan is a BLDC-motor-driven fan used inside servers, AI servers, storage systems, networking equipment, and data-center IT hardware. It is typically supplied as an axial fan, blower, or fan module, integrating an impeller, bearings, motor driver IC, PWM speed control, and tachometer feedback. Its core functions are to deliver high airflow, high static pressure, low power consumption, long service life, and stable thermal management for CPUs, GPUs, memory, power supplies, chassis airflow, and high-density server nodes.

The upstream supply chain mainly covers plastic frames/blades, dual ball bearings, motors and driver/control electronics, and cable/connector assemblies. Downstream customers are server OEMs/ODMs, cloud and hyperscale data centers, storage vendors, and edge-server suppliers.

In 2025, global DC brushless server cooling fan for data center servers production reached approximately 400 million units, with an average global market price is \$20 per unit.

Global DC brushless server cooling fans are critical air-cooling components used in servers, AI computing nodes, storage systems, network switches and data-center racks. They typically use BLDC motors, PWM speed control, tachometer feedback, fault

alarms, high-static-pressure impellers and long-life bearing structures to provide forced cooling for CPUs, GPUs, memory modules, power supplies, SSDs, network cards, motherboard chipsets and heat sinks. Compared with ordinary DC fans, server-grade DC brushless fans place much greater emphasis on high speed, high static pressure, continuous-duty reliability, redundant control, low power consumption and system communication. Their operating environment is typically 24/7 high-load service, requiring strong performance in lifetime, vibration, acoustic control, temperature resistance, bearing stability and failure-warning capability.

In terms of industry trends, DC brushless server cooling fans are moving toward higher static pressure, higher efficiency, intelligent control, modular design, lower noise and closer coordination with liquid cooling. AI servers and GPU servers are increasing rack and chassis power density, while internal airflow resistance is becoming higher, so fans are no longer judged only by airflow volume; static-pressure output under high-impedance airflow paths, PWM closed-loop control, fast thermal response and multi-fan coordination are becoming more important. Liquid cooling will not fully replace fans: in direct-to-chip or hybrid cooling architectures, cold plates may remove most CPU/GPU heat, but memory, power supplies, storage, networking modules, motherboard components and rack residual heat still require auxiliary airflow. Therefore, product upgrading is shifting from standalone fan performance toward system-level optimization with BMC control, temperature sensors, fan walls, ducting, heat sinks and rack-level thermal management. Data-center electricity demand is still rising quickly, and the IEA expects global data-center electricity consumption to nearly double to around 945TWh by 2030, reflecting long-term demand for efficient cooling components in high-density computing infrastructure.

The main growth drivers come from three areas. First, AI training, AI inference, cloud computing and high-performance computing are raising server power density, creating stronger requirements for high static pressure, high speed, rapid response and long service life; the IEA also reported that data-center electricity demand rose by 17% in 2025, with AI-focused data centers growing even faster. Second, data-center operators are increasingly focused on energy efficiency and total cost of ownership, and because fan power is strongly related to rotational speed, BLDC motor efficiency, blade optimization, low-loss bearings, intelligent speed control and demand-based cooling are becoming key development directions. Third, server platforms are moving toward hot-swappable fan modules, N+1 redundancy, fault monitoring and predictive maintenance, pushing DC brushless server fans from simple cooling devices into reliability components with status feedback and system interaction. Overall, future competition in DC Brushless Server Cooling Fans will focus on motor efficiency, static-pressure

capability, acoustic control, lifetime reliability, intelligent control interfaces and compatibility with high-density server thermal architectures.

This report is a detailed and comprehensive analysis for global DC Brushless Server Cooling Fan 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 DC Brushless Server Cooling Fan market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global DC Brushless Server Cooling Fan 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 DC Brushless Server Cooling Fan 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 DC Brushless Server Cooling Fan 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 DC Brushless Server Cooling Fan

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 DC Brushless Server Cooling Fan 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 Delta Electronics, NMB Technologies, Sanyo Denki, Sunonwealth Electric Machine Industry, Nidec Corporation, ADDA Corp, AVC Group, Ebmpapst, Pelonis Technologies, Mechatronics Fan Group, etc.

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

### Market Segmentation

DC Brushless Server Cooling Fan 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

Axial Fans

Centrifugal Fans

#### Market segment by Size

40mm Class

60mm Class

80mm Class

120mm and Above

#### Market segment by Application

Data Centers and Servers

Telecommunications and Networking Equipment

Others

Major players covered

Delta Electronics

NMB Technologies

Sanyo Denki

Sunonwealth Electric Machine Industry

Nidec Corporation

ADDA Corp

AVC Group

Ebmpapst

Pelonis Technologies

Mechatronics Fan Group

Sofasco

YS TECH

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 DC Brushless Server Cooling Fan product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of DC Brushless Server Cooling Fan, with price, sales quantity, revenue, and global market share of DC Brushless Server Cooling Fan from 2021 to 2026.

Chapter 3, the DC Brushless Server Cooling Fan competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the DC Brushless Server Cooling Fan 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 DC Brushless Server Cooling Fan 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 DC Brushless Server Cooling Fan.

Chapter 14 and 15, to describe DC Brushless Server Cooling Fan sales channel, distributors, customers, research findings and conclusion.

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