

Global Server Power Supply Chips 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 Server Power Supply Chips market size was valued at US\$ 335 million in 2025 and is forecast to a readjusted size of US\$ 801 million by 2032 with a CAGR of 12.7% during review period.

In 2025, global Server Power Supply Chips capacity 170 million Pcs, sales reached approximately 163 million Pcs, with an average market price of around 2 USD/Pcs, industrial gross margin 51%.

Server Power Supply Chips have evolved from background components into strategic enablers for modern server and AI infrastructure. The competitive landscape is led by global IDMs such as Infineon, Texas Instruments, Renesas, onsemi and ST, which offer complete portfolios from PFC/LLC controllers to digital multiphase controllers and power stages, often paired with their own MOSFET, SiC and GaN devices. A second group consists of mixed-signal and power-management specialists like ADI, Microchip and others with strong positions in digital VR controllers and PMBus power-management ICs, while regional players in China and Taiwan focus on server VR controllers, DrMOS and PMICs closely tied to PSU ODMs. As a result, the Server Power Supply Chips market shows a layered structure, with a handful of global vendors owning the high end and regional firms addressing specific sockets and local ecosystems.

On the technology side, Server Power Supply Chips are driven by requirements for higher current, higher efficiency and deeper programmability. Front-end AC-DC stages use digital PFC and LLC controllers in combination with SiC and GaN devices to achieve 3–12 kW PSUs with peak efficiencies approaching 97–98% and full compliance with ORV3-class rack specifications. Board-level power delivery relies on

VR13/VR14-compliant digital multiphase controllers and power stages that support up to 16 phases and hundreds of amps for CPU, GPU and AI accelerators, with interfaces such as Intel SVID, AMD SVI, NVIDIA PWMVID and PMBus for telemetry and control. In this context, Server Power Supply Chips are increasingly viewed as firmware-tunable, networked power resources rather than fixed-function analog blocks.

From an application and value-chain perspective, Server Power Supply Chips span the full path from rack-level AC-DC supplies to on-board VRs. Upstream, device and IP suppliers provide control architectures, power transistors and advanced packaging; midstream, IDMs and fabless vendors integrate these into Server Power Supply Chips; downstream, PSU ODMs, server OEMs and cloud or enterprise data centers embed them into complete systems. AI servers and high-density racks are the primary growth engines: multi-kilowatt PSU reference designs increasingly use GaN/SiC-based power stages controlled by digital power ICs, while next-generation CPU/GPU and HBM platforms push VR controllers to deliver faster transient response, finer telemetry and tighter integration with system management. Typical engagement models revolve around complete reference designs and BOMs, which gives Server Power Supply Chips substantial stickiness once designed in.

A recent move that illustrates the strategic direction of the Server Power Supply Chips market is Renesas' 2024 acquisition of GaN specialist Transphorm. By bringing GaN device technology and manufacturing in-house, Renesas immediately expanded its WBG-based power portfolio and released new GaN-centric reference designs targeting data center and server power, effectively combining its existing controllers and PMICs with advanced GaN switches for front-end and intermediate-bus stages. This type of transaction allows a traditional MCU/PMIC vendor to offer tightly coupled control-and-device solutions for Server Power Supply Chips, particularly in AI server and high-density rack applications where GaN and SiC adoption is accelerating.

Looking ahead, three structural trends are likely to shape the Server Power Supply Chips landscape. First, the shift toward 48 V racks and high-voltage DC “grid-to-rack” architectures will pull power-control silicon closer to facility-level energy management, making rack and board controllers key actors in grid interaction and energy orchestration. Second, the volume ramp of SiC and GaN will drive new generations of controllers and drivers capable of higher switching frequencies, higher power density and improved EMI behavior, turning Server Power Supply Chips into the main gateway through which WBG benefits are realized in AI and cloud data centers. Third, the continued move toward digital and software-defined power—more telemetry, in-field reconfiguration, and data-driven fleet management—will position Server Power Supply

Chips as levers for managing peak power, optimizing energy efficiency and meeting carbon targets at the system and data-center level, rather than just as local regulators on a motherboard.

This report is a detailed and comprehensive analysis for global Server Power Supply Chips 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 Server Power Supply Chips market size and forecasts, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Unit), 2021-2032

Global Server Power Supply Chips market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Unit), 2021-2032

Global Server Power Supply Chips market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Unit), 2021-2032

Global Server Power Supply Chips market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Pcs), 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 Server Power Supply Chips
- 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 Server Power Supply Chips 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 Infineon, TI, Analog Devices, onsemi,

MPS, Renesas Electronics, Navitas Semiconductor, STMicroelectronics, Rohm, Sanken Electric, etc.

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

Market Segmentation

Server Power Supply Chips 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

Analog Type

Digital Type

Market segment by Technology

GaN HEMTs

SiC MOSFETs

Others

Market segment by Application

General Purpose Server

AI Server

Major players covered

Infineon

TI

Analog Devices

onsemi

MPS

Renesas Electronics

Navitas Semiconductor

STMicroelectronics

Rohm

Sanken Electric

Microchip Technology

Joulwatt

Bright Power Semiconductor

Silergy

Wuxi Chipown Micro-electronics

United Nova Technology

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 Server Power Supply Chips product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Server Power Supply Chips, with price, sales quantity, revenue, and global market share of Server Power Supply Chips from 2021 to 2026.

Chapter 3, the Server Power Supply Chips competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Server Power Supply Chips 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 Server Power Supply Chips 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 Server Power Supply Chips.

Chapter 14 and 15, to describe Server Power Supply Chips sales channel, distributors, customers, research findings and conclusion.

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