

Global AI Server Voltage Regulator Module (VRM) 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 AI Server Voltage Regulator Module (VRM) market size was valued at US\$ 2936 million in 2025 and is forecast to a readjusted size of US\$ 18474 million by 2032 with a CAGR of 28.6% during review period.

The AI Server Voltage Regulator Module (VRM) is a high-current, multiphase power delivery subsystem that converts intermediate bus voltages (typically 12V or 48V) into tightly regulated low voltages required by CPUs, GPUs, or AI accelerators (typically 0.6V-1.8V). It ensures fast transient response, high efficiency, and low output ripple under extreme AI workload fluctuations. It typically consists of a PWM controller, power stages (DrMOS/MOSFETs), inductors, capacitors, and a multilayer PCB power network. In 2025, global AI Server Voltage Regulator Module (VRM) production reached approximately 6690.8 K Units. The upstream of the AI Server Voltage Regulator Module (VRM) industry includes power semiconductors (MOSFETs, DrMOS, GaN/SiC devices), magnetic components (inductors and ferrite cores), capacitors (polymer capacitors and MLCCs), and power management ICs (PWM controllers and digital power management ICs).

The AI Server Voltage Regulator Module (VRM) market is expanding rapidly alongside the growth of high-power AI GPU servers. Compared with conventional server power systems, AI accelerators require lower voltages, significantly higher current delivery, and ultra-fast transient response, driving strong demand for multiphase VRMs, DrMOS power stages, and high-density DC-DC modules. As GPU power consumption continues rising from H100 to B200 and future AI accelerators, VRMs are evolving from auxiliary motherboard components into critical power infrastructure for AI computing

systems.

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

Global AI Server Voltage Regulator Module (VRM) 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 AI Server Voltage Regulator Module (VRM) 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 AI Server Voltage Regulator Module (VRM) 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 AI Server Voltage Regulator Module (VRM)

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 AI Server Voltage Regulator Module (VRM) 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 Vicor Corporation, Delta Electronics, Lite-On Technology, Murata Manufacturing, Flex Ltd, Shenzhen Megmeet Electrical, Hangzhou Silergy, etc.

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

Market Segmentation

AI Server Voltage Regulator Module (VRM) 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

Low Power VRM (5kW)

Market segment by Phase Count

6?8 Phase VRM

10?16 Phase VRM

20?32 Phase VRM

32+ Phase Digital VRM

Market segment by Power Architecture

Discrete MOSFET VRM

DrMOS-based VRM

GaN VRM

SiC VRM

Market segment by Form Factor

Motherboard VRM

VRM Power Module

Vertical Power Delivery Module

Power Card

Market segment by Application

AI Training Servers

AI Inference Servers

High Performance Computing (HPC) Servers

ASIC AI Accelerator Systems

Cloud Data Centers

Others

Major players covered

Vicor Corporation

Delta Electronics

Lite-On Technology

Murata Manufacturing

Flex Ltd

Shenzhen Megmeet Electrical

Hangzhou Silergy

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 AI Server Voltage Regulator Module (VRM) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI Server Voltage Regulator Module (VRM), with price, sales quantity, revenue, and global market share of AI Server Voltage Regulator Module (VRM) from 2021 to 2026.

Chapter 3, the AI Server Voltage Regulator Module (VRM) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI Server Voltage Regulator Module (VRM) 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 AI Server Voltage Regulator Module (VRM) 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 AI Server Voltage Regulator Module (VRM).

Chapter 14 and 15, to describe AI Server Voltage Regulator Module (VRM) sales channel, distributors, customers, research findings and conclusion.

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