

Global Vertica Power Delivery Modules 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 Vertica Power Delivery Modules market size was valued at US\$ 638 million in 2025 and is forecast to a readjusted size of US\$ 3956 million by 2032 with a CAGR of 27.1% during review period.

Vertical Power Delivery Modules (VPD modules) are high-power-density point-of-load DC-DC modules designed for high-current processors. They are typically mounted on the backside of the PCB directly beneath a CPU, GPU, AI accelerator, or ASIC, or integrated close to the package, so current reaches the load through a short Z-axis path that reduces power-delivery-network impedance and I²R loss. Typical products integrate power stages, magnetics, capacitors, and selected control, sensing, and protection functions in a low-profile package, using architectures such as multiphase synchronous buck conversion, current multiplication, or integrated voltage regulation. Output voltage is commonly below or around 1 V, while individual modules range from roughly one hundred amperes to several hundred amperes and can be paralleled for processor rails requiring more than one thousand amperes. Key downstream products include AI accelerator cards, server motherboards, data center switching equipment, and HPC compute boards. Major purchasing parameters include output current, current density, module height, transient response, conversion efficiency, and thermal resistance. The blended gross margin is approximately 48%.

Rising processor power and core current are increasing copper loss, voltage drop, and transient-response pressure in conventional lateral power delivery around the processor. Vertical power delivery moves the high-current conversion stage directly beneath the load, shortening the final PDN path while freeing topside board area for

HBM, high-speed I/O, and interconnects. Adoption is therefore expanding from a limited number of customized high-end platforms toward a broader range of AI accelerators, server processors, and high-speed networking silicon.

Product development is centered on higher current per module, lower profile, and greater integration. Dual-phase modules in the hundred-ampere class are being extended toward quad-phase and higher-current-density designs, with increasing use of integrated magnetics, embedded capacitors, digital control, TLVR, and tileable module arrays. Cold-plate compatibility, double-sided thermal paths, and fast transient performance are also becoming key design parameters. Supply is broadening from specialist power-module vendors to power-semiconductor companies and large power-system manufacturers, although processor pin mapping, board layout, and thermal structure still require substantial co-design and limit standardization.

Demand is concentrated in North American cloud and AI platform ecosystems, while Asia remains a major manufacturing base for servers, accelerator cards, and power modules, and European suppliers hold important positions in power semiconductors and advanced packaging. Customer qualification cycles, processor-platform design wins, and capacity for high-density magnetics and packaging can affect the pace of volume deployment. Lateral power delivery remains cost-competitive for lower-current platforms, but the economics of vertical delivery improve as processor current rises. Future opportunities are strongest in next-generation GPUs, custom AI ASICs, data center switch silicon, and co-packaged optics platforms, while key risks include rapid power-architecture changes, package-integrated regulation, thermal constraints, customer concentration, and intellectual-property barriers.

Report Scope

This report is a detailed and comprehensive analysis for global Vertica Power Delivery Modules 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 Vertica Power Delivery Modules market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Vertica Power Delivery Modules 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 Vertica Power Delivery Modules 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 Vertica Power Delivery Modules 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 Vertica Power Delivery Modules

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 Vertica Power Delivery Modules 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, Infineon Technologies, Monolithic Power Systems, Empower Semiconductor, Flex Power Modules, Delta Electronics, Renesas Electronics, etc.

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

Vertica Power Delivery Modules 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 Segmentation

Market segment by Type

Up to 100 A

101–200 A

201–300 A

Over 300 A

Market segment by Phase Count

Single-Phase

Dual-Phase

Quad-Phase

More than Four Phases

Other Phase Configurations

Market segment by Conversion Architecture

Multiphase Buck Modules

Current Multiplier Modules

Integrated Voltage Regulator Modules

Other Architectures

Market segment by Module Height

Up to 4 mm

Over 4 to 6 mm

Over 6 mm

Market segment by Application

AI Accelerator Cards

Server Motherboards

Data Center Switches

HPC Compute Boards

Others

Major players covered

Vicor

Infineon Technologies

Monolithic Power Systems

Empower Semiconductor

Flex Power Modules

Delta Electronics

Renesas Electronics

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)

Chapter Outline

Chapter 1, to describe Vertica Power Delivery Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Vertica Power Delivery Modules, with price, sales quantity, revenue, and global market share of Vertica Power Delivery Modules from 2021 to 2026.

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

Chapter 4, the Vertica Power Delivery Modules 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 Vertica Power Delivery Modules 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 Vertica Power Delivery Modules.

Chapter 14 and 15, to describe Vertica Power Delivery Modules sales channel, distributors, customers, research findings and conclusion.

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