

Global Power Management ICs for Servers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Power Management ICs for Servers market size is expected to reach \$ 8462 million by 2032, rising at a market growth of 15.4% CAGR during the forecast period (2026-2032).

Power Management ICs for Servers are integrated circuits specifically designed for power conversion, voltage regulation, power distribution, monitoring, sequencing, and protection within server systems. They convert electrical power supplied by the server power architecture into stable voltage and current required by processors, graphics processing units, artificial intelligence accelerators, memory, storage devices, networking chips, and other critical loads. Typical products include multiphase controllers, smart power stages, direct current converters, point of load regulators, hot swap controllers, electronic fuses, power monitoring ICs, and power sequencing ICs. These devices are required to deliver high conversion efficiency, high power density, fast load response, precise control, and reliable long term operation. Power Management ICs for Servers typically cost a few dollars each, with gross margins usually between 50% and 60%.

The upstream supply chain for Power Management ICs for Servers mainly includes wafer fabrication, analog and mixed signal design tools, semiconductor materials, packaging and testing services, power semiconductor devices, and supporting electronic components such as inductors, capacitors, and connectors. The midstream segment consists of power management IC design companies, integrated device manufacturers, and power solution providers responsible for chip architecture design, wafer production coordination, packaging and testing, firmware development, and reference power solution design. Downstream participants mainly include server manufacturers, motherboard producers, power module suppliers, data center equipment

vendors, and operators of cloud computing and high performance computing systems. Changes in end market demand are transmitted to chip suppliers through server platform upgrades, power architecture adjustments, and customer qualification cycles, making long term collaborative development with processor vendors, server platform developers, and power module companies an important feature of the industry.

Power Management ICs for Servers are critical semiconductor devices that support power efficiency, operational stability, and system reliability across server hardware platforms. The continued development of cloud computing, artificial intelligence, high performance computing, and enterprise digitalization is driving higher power consumption in processors, accelerators, memory, and high speed interconnect devices, creating stronger demand for efficient power conversion, fast transient response, precise voltage regulation, and intelligent monitoring. Market competition is gradually shifting from individual device performance toward multiphase power delivery, integrated power stages, digital control, system level protection, and platform level coordination. Suppliers with advanced power architecture capabilities, established server customer qualifications, and reliable supply capacity are expected to maintain stronger competitive positions.

This report studies the global Power Management ICs for Servers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Power Management ICs for Servers and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Power Management ICs for Servers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Power Management ICs for Servers total production and demand, 2021-2032, (K Units)

Global Power Management ICs for Servers total production value, 2021-2032, (USD Million)

Global Power Management ICs for Servers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Power Management ICs for Servers consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Power Management ICs for Servers domestic production, consumption,

key domestic manufacturers and share

Global Power Management ICs for Servers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Power Management ICs for Servers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Power Management ICs for Servers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Power Management ICs for Servers market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include MPS, Infineon Technologies, Texas Instruments, Renesas Electronics, Analog Devices, onsemi, STMicroelectronics, Alpha and Omega Semiconductor, Microchip Technology, MaxLinear, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Power Management ICs for Servers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Power Management ICs for Servers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Power Management ICs for Servers Market, Segmentation by Type:

Multiphase Controllers

Integrated Power Stages

Others

Global Power Management ICs for Servers Market, Segmentation by Power Conversion Stage:

Input and Front-End Power Management ICs

Intermediate Bus Power ICs

Point-of-Load Power ICs

Auxiliary Power Management ICs

Global Power Management ICs for Servers Market, Segmentation by Application:

AI and HPC Servers

General-Purpose Compute Servers

Others

Companies Profiled:

MPS

Infineon Technologies

Texas Instruments

Renesas Electronics

Analog Devices

onsemi

STMicroelectronics

Alpha and Omega Semiconductor

Microchip Technology

MaxLinear

ROHM Semiconductor

Vishay Intertechnology

Richtek Technology

uPI Semi

Silergy

JOULWATT

Shanghai Jingfeng Mingyuan

Key Questions Answered:

1. How big is the global Power Management ICs for Servers market?

2. What is the demand of the global Power Management ICs for Servers market?
3. What is the year over year growth of the global Power Management ICs for Servers market?
4. What is the production and production value of the global Power Management ICs for Servers market?
5. Who are the key producers in the global Power Management ICs for Servers market?
6. What are the growth factors driving the market demand?

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