

Global COM-HPC Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global COM-HPC Module market size is expected to reach \$ 2791 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

COM-HPC module is a high-performance computer module based on open standards. It adopts a two board architecture of computing module loading board, integrates processors, memory and core computing functions on standardized modules, and connects with customized loading boards through high-speed connectors to achieve high bandwidth, high computing power and flexible expansion capability. It is widely used in edge computing servers, industrial automation, communication equipment, medical imaging and aerospace systems. In 2025, the global sales volume will be about 1.35 million, the average unit price will be about \$1250 each, the capacity utilization rate will be about 82%, and the gross profit rate will be about 30%. Its upstream mainly includes CPU and SoC chip manufacturers, memory and storage enterprises, high-speed connectors and PCBs Manufacturers and suppliers of power and cooling components. The midstream is an embedded module design manufacturer and industrial computer enterprise. The downstream is mainly concentrated in communication equipment manufacturers, industrial automation enterprises, edge computing and AI server manufacturers, medical equipment enterprises, and transportation and energy system integrators. In the product cost structure, core processors and chips account for about 48%, memory and storage account for about 18%, and high-speed PCB The list of downstream demand in terms of demand includes edge server deployment, industrial control system upgrade, communication base station computing platform, medical image processing equipment and intelligent transportation system, etc. The list of downstream customers includes communication equipment manufacturers, industrial automation enterprises, cloud edge computing manufacturers, medical equipment companies and system integrators. The policy drive in terms of

business opportunities comes from the continuous promotion of digital economy construction and computing infrastructure upgrade, and the technology innovation drive comes from high-performance multi-core processors. The development of PCIe5 and high-speed interconnection technology as well as the demand for AI edge computing has increased. The change in consumer demand is reflected in the demand for higher computing power density, lower power consumption and stronger expansion capability, thus promoting the development of COM-HPC modules towards high-performance, modularization and standardization.

This report studies the global COM-HPC Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for COM-HPC Module 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 COM-HPC Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global COM-HPC Module total production and demand, 2021-2032, (K Units)

Global COM-HPC Module total production value, 2021-2032, (USD Million)

Global COM-HPC Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global COM-HPC Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: COM-HPC Module domestic production, consumption, key domestic manufacturers and share

Global COM-HPC Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global COM-HPC Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global COM-HPC Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global COM-HPC Module 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 Congatec (DE), Kontron AG (DE), Avnet, Inc. (US), Tria Technologies Srl (IT), SECO (DE), ADLINK Technology Inc. (TW), Advantech

Co., Ltd. (TW), AAEON Technology Inc. (TW), ARBOR (TW), Portwell (TW), 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 COM-HPC Module 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 COM-HPC Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global COM-HPC Module Market, Segmentation by Type:

COM-HPC Mini Module

COM-HPC Client Module

COM-HPC Server Module

Global COM-HPC Module Market, Segmentation by Pin Layout:

400 pins

800 pins

Global COM-HPC Module Market, Segmentation by Application:

AI Servers

Autonomous Driving

Robotics

Medical

Other

Companies Profiled:

Congatec (DE)

Kontron AG (DE)

Avnet, Inc. (US)

Tria Technologies Srl (IT)

SECO (DE)

ADLINK Technology Inc. (TW)

Advantech Co., Ltd. (TW)

AAEON Technology Inc. (TW)

ARBOR (TW)

Portwell (TW)

NI (JP)

Key Questions Answered:

1. How big is the global COM-HPC Module market?
2. What is the demand of the global COM-HPC Module market?
3. What is the year over year growth of the global COM-HPC Module market?
4. What is the production and production value of the global COM-HPC Module market?
5. Who are the key producers in the global COM-HPC Module market?
6. What are the growth factors driving the market demand?

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