

Global Robotics AI Computer Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Robotics AI Computer market size was valued at US\$ 597 million in 2025 and is forecast to a readjusted size of US\$ 2101 million by 2032 with a CAGR of 19.5% during review period.

A Robotics AI Computer is a high-performance embedded computing device deployed on robot bodies or in edge environments. It typically integrates heterogeneous processors, GPUs, NPUs, memory, storage, power management, thermal structures, high-speed networking, and multi-sensor interfaces into a complete system or board-level platform. It enables mobile robots, collaborative robots, humanoid robots, unmanned vehicles, drones, and industrial vision systems to perform visual perception, voice interaction, localization and mapping, path planning, behavior decision-making, defect inspection, and safety monitoring near the point of operation. Its core value lies in moving artificial intelligence inference from cloud or server infrastructure to the device side, thereby reducing latency, limiting data backhaul, improving privacy protection, and supporting offline operation. Through technology routes such as Jetson, x86 acceleration, ARM heterogeneous SoCs, discrete GPUs, and dedicated NPUs, it adapts to different requirements for computing power, power consumption, size, and reliability. Common product forms include development kits, embedded box computers, rugged fanless systems, waterproof and dustproof controllers, and rackmount edge nodes. The main customers include robot manufacturers, automation integrators, smart manufacturing enterprises, logistics and warehousing operators, security patrol organizations, medical robot developers, and research and education institutions. Business models mainly include hardware sales, custom design, volume supply, software toolchains, remote management, and integrated industry solutions.

Robotics AI computers are becoming a critical infrastructure layer for the robotics industry as it moves from automation control toward embodied intelligence. Traditional robot control systems mainly emphasize motion control, signal acquisition, and deterministic execution, while next-generation robots must also handle visual recognition, 3D perception, speech understanding, path planning, anomaly detection, and behavior decision-making. Relying solely on cloud computing is increasingly insufficient for low latency, privacy protection, offline operation, and safety redundancy. As high-performance embedded GPUs, dedicated NPUs, heterogeneous SoCs, and edge software stacks mature, robotics AI computers are able to perform increasingly complex inference tasks on the robot body. By connecting cameras, radars, encoders, force sensors, and control buses through multi-sensor interfaces, they enable robots to achieve stronger environmental understanding and autonomous decision-making. The value of this product category is not merely additional computing power, but the tighter integration of perception, inference, and control inside robotic systems, supporting the transition of mobile robots, industrial robots, humanoid robots, unmanned vehicles, and intelligent inspection devices from predefined execution toward real-time scene adaptation.

The competitive focus of robotics AI computers is shifting from a single computing-performance metric to comprehensive engineering capability. Robot operating environments often involve limited space, power fluctuations, temperature variation, vibration, dust, humidity, and continuous operation requirements. As a result, products must balance computing power, power consumption, thermal design, interfaces, reliability, and software ecosystems. High-performance systems are suitable for humanoid robots, multi-camera perception, on-device large models, and complex multi-sensor fusion. Low-power products are suitable for small mobile robots, educational robots, and lightweight visual inference. Rugged fanless systems are suited to factories, warehouses, vehicles, and outdoor inspection scenarios. Multi-camera access, real-time networking, CAN bus connectivity, PoE power supply, GMSL transmission, wide-voltage input, and remote maintenance capabilities directly affect robot system design. In the future, industry segmentation will become more pronounced: platform companies will provide chips, software, and ecosystems; industrial computer vendors will provide reliable systems and interface adaptation; and system integrators will combine algorithms, sensors, and robot bodies around industry-specific scenarios.

From a market development perspective, robot AI computers are positioned at the convergence of edge AI, industrial computing, and the robotics industry. Demand is mainly driven by the need for robot bodies, mobile platforms, and unmanned systems to upgrade capabilities such as perception computing, on-device inference, multi-sensor

fusion, localization and navigation, motion planning, and task scheduling. As manufacturing automation, warehouse logistics robots, humanoid robots, autonomous vehicles, intelligent inspection systems, and on-device generative AI applications continue to advance, procurement demand is expected to move gradually from R&D validation and prototype adoption toward pilot deployment and scaled implementation. Customer priorities will also expand from computing performance alone to broader requirements such as long-term supply, industrial-grade stability, hardware-software compatibility, remote maintenance, system security, and global certification. On the supply side, U.S. AI computing platform providers, Taiwanese industrial computer manufacturers, mainland Chinese edge AI hardware companies, Japanese industrial automation vendors, and South Korean AI chip companies are expected to jointly drive product evolution, while demand is likely to be stronger in regions with mature robotics supply chains, higher levels of automation, stronger labor substitution needs, and an established foundation for smart manufacturing and unmanned system applications.

This report is a detailed and comprehensive analysis for global Robotics AI Computer market. Both quantitative and qualitative analyses are presented by company, by region & country, by Computing Power Level 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 Robotics AI Computer market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Robotics AI Computer market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Robotics AI Computer market size and forecasts, by Computing Power Level and by Application, in consumption value (\$ Million), 2021-2032

Global Robotics AI Computer market shares of main players, in revenue (\$ Million), 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 Robotics AI Computer

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 Robotics AI Computer market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NVIDIA Corporation, Advantech Co., Ltd., AAEON Technology Inc., ADLINK Technology Inc., Neosys Technology Inc., Vecow Co., Ltd., Cincoze Co., Ltd., DFI Inc., IEI Integration Corp., NEXCOM International Co., Ltd., etc.

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

Market segmentation

Robotics AI Computer market is split by Computing Power Level and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Computing Power Level and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Computing Power Level

Micro-Power Entry-Level Robotics AI Computer

Low-Power Mainstream Robotics AI Computer

High-Performance Multi-Sensor Robotics AI Computer

Edge Generative AI Robotics AI Computer

Market segment by Deployment Form

Board-Level Development Kit Robotics AI Computer

Embedded Box Robotics AI Computer

Rugged Fanless Robotics AI Computer

Waterproof and Dustproof Robotics AI Computer

Rackmount Edge Robotics AI Computer

Other

Market segment by Sensor Interface

General Camera Access Robotics AI Computer

Industrial Ethernet Camera Access Robotics AI Computer

Automotive Serial Camera Access Robotics AI Computer

Fieldbus Control Access Robotics AI Computer

Multimodal High-Speed Network Access Robotics AI Computer

Other

Market segment by Application

Mobile Robot Navigation Perception

Industrial Robot Visual Inspection

Humanoid Robot Multimodal Interaction

Unmanned Vehicle Edge Autonomy

Medical Robot Real-Time Assistance

Other

Market segment by players, this report covers

NVIDIA Corporation

Advantech Co., Ltd.

AAEON Technology Inc.

ADLINK Technology Inc.

Neosys Technology Inc.

Vecow Co., Ltd.

Cincoze Co., Ltd.

DFI Inc.

IEI Integration Corp.

NEXCOM International Co., Ltd.

ASUSTeK Computer Inc.

Axiomtek Co., Ltd.

IBASE Technology Inc.

ACROSSER Technology Co., Ltd.

Portwell Inc.

EVOC Intelligent Technology Co., Ltd.

Shenzhen NORCO Intelligent Technology Co., Ltd.

Seed Technology Co., Ltd.

CONTEC Co., Ltd.

RT Corporation

SECO S.p.A.

Eurotech S.p.A.

Kontron AG

Connect Tech Inc.

Premio Inc.

OnLogic Inc.

Dell Technologies Inc.

Hewlett Packard Enterprise Company

Lenovo Group Limited

Super Micro Computer, Inc.

Qualcomm Incorporated

Intel Corporation

Advanced Micro Devices, Inc.

Hailo Technologies Ltd.

DEEPX Co., Ltd.

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Robotics AI Computer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Robotics AI Computer, with revenue, gross margin, and global market share of Robotics AI Computer from 2021 to 2026.

Chapter 3, the Robotics AI Computer competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Computing Power Level and by Application, with consumption value and growth rate by Computing Power Level, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Robotics AI Computer market forecast, by regions, by Computing Power Level and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Robotics AI Computer.

Chapter 13, to describe Robotics AI Computer research findings and conclusion.

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