

Global Industrial Computers Market Size study, by Type (Panel, Box, Embedded Din Rail, Din Rail, Rack Mount, Others), by Technology (Resistive, Capacitive), by End Use (Industrial, Others, Transportation and Infrastructure, Electronics, Pharmaceuticals) and Regional Forecasts 2022-2032

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Abstracts

The Global Industrial Computers Market is valued at approximately USD 5.46 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 6.7% over the forecast period 2024-2032. An industrial computer is a specialized computing system designed to handle a range of factory and industrial workloads for machine automation, production machinery, and advanced autonomous robotics. Rugged design principles used in most industrial computers include fanless cooling, cableless interfaces without moving parts, and some degree of resistance to dust and water infiltration. With robust Input/Output integration, multi-protocol support, and upgradeable capabilities, industrial computers seamlessly integrate legacy equipment with the newest technology to form a responsive industrial IoT edge network. These computers are designed for both newer industry 4.0 cyber-physical systems and legacy equipment, enhancing reliability and security.

The Global Industrial Computers Market is expected to witness significant growth due to high demand for industrial IoT by manufacturing companies, increased awareness about resource optimization in manufacturing firms, and recent innovations in display technology, such as LCD and OLED displays. Moreover, the demand for smart manufacturing solutions is growing rapidly due to advanced technologies across the manufacturing sector, rapid industrialization, and infrastructure development. However, high initial investment and data privacy and cybersecurity concerns are factors that

restrain market growth.

Key regions considered for the study in Global Industrial Computers Market includes Asia Pacific, North America, Europe, Latin America and Middle East and Africa. North America is the dominating region, driven by its advanced technological infrastructure, significant investments in industrial automation, and the strong presence of major market players. The region's industries, including manufacturing, healthcare, and transportation, are increasingly adopting industrial computers for their robust performance, reliability, and ability to operate in harsh environments. Furthermore, North America's focus on smart manufacturing and Industry 4.0 initiatives, along with favorable government policies supporting technological innovation, solidifies its leading position in the market. The Asia-Pacific region is the fastest-growing market for industrial computers. This rapid growth is propelled by the region's accelerating industrialization, urbanization, and expanding manufacturing sector. Countries like China, Japan, South Korea, and India are at the forefront of adopting advanced industrial computing solutions to enhance productivity, efficiency, and automation in their industries. The region's growing investments in smart factories, the Industrial Internet of Things (IIoT), and the integration of artificial intelligence and machine learning in industrial processes are further driving market growth.

Major market players included in this report are:

Advantech Co., Ltd.

Siemens AG

Beckhoff Automation GmbH & Co. KG

Schneider Electric SE

Rockwell Automation, Inc.

ABB Ltd.

Kontron S&T AG

General Electric Company (GE)

Panasonic Corporation

Omron Corporation

Emerson Electric Co.

Nexcom International Co., Ltd.

Axiomtek Co., Ltd.

IEI Integration Corp.

National Instruments Corporation

The detailed segments and sub-segment of the market are explained below:

By Type:

Panel
Box
Embedded Din Rail
Din Rail
Rack Mount
Others

By Technology:
Resistive
Capacitive

By End Use:
Industrial
Transportation and Infrastructure
Electronics
Pharmaceuticals
Others

By Region:
North America
U.S.
Canada

Europe
UK
Germany
France
Spain
Italy
ROE

Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2021

Base year – 2022

Forecast period – 2023 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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