

Industrial PC Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global industrial PC market size reached US\$ 5.0 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 6.6 Billion by 2028, exhibiting a growth rate (CAGR) of 4.4% during 2023-2028.

An industrial personal computer (PC) refers to a commercial computing platform used for large-scale storage, information processing and communication applications. They are specifically designed to operate under extreme circumstances, such as high temperatures, moisture, dust, shocks and vibrations. Industrial PCs are usually deployed for process and machine automation and can simultaneously run human-computer interface (HCI) applications effectively. They are manufactured in an enclosed casing with industrial-grade components to protect the contents from dust and particulate intrusion. In comparison to commercial and personal computers, industrial PCs consume lesser power, are more efficient and have a longer operational life. As a result, they find extensive applications across various industries, such as automotive, chemical, healthcare, aerospace & defense, oil & gas, energy & power, and semiconductor & electronics.

The increasing automation across industries represents one of the key factors driving the growth of the market. Furthermore, the rising demand for energy-efficient computing systems is also driving the market growth. Industrial PCs aid in increasing production capacities of industrial units by optimizing the utilization of resources and minimizing waste. Additionally, various technological advancements, such as the integration of the Internet of Things (IoT) and artificial intelligence (AI) with these PCs that facilitate the detection of defects in the product manufacturing system, are acting as other growth-

inducing factors. In line with this, the widespread adoption of solid-state drives (SSD) in industrial PCs is also contributing to the market growth. Silicon microchip-based SSDs facilitate high-speed data transfer and generate minimal heat while operating and optimizing digitalized manufacturing. Other factors, including improvements in information technology (IT) infrastructure, along with extensive research and development (R&D) activities, are anticipated to drive the market further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global industrial PC market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, display type, sales channel and end use industry.

Breakup by Type:

- Panel IPC
- Rack Mount IPC
- Box IPC
- Embedded IPC
- DIN Rail IPC
- Others

Breakup by Display Type:

- Resistive
- Capacitive
- Others

Breakup by Sales Channel:

- Direct Sales
- Indirect Sales

Breakup by End Use Industry:

Automotive
Healthcare
Chemical
Aerospace and Defense
Semiconductor and Electronics
Energy and Power
Oil and Gas
Others

Breakup by Region:

North America

United States
Canada

Asia Pacific

China
Japan
India
South Korea
Australia
Indonesia
Others

Europe

Germany
France
United Kingdom
Italy
Spain
Russia
Others

Latin America

Brazil
Mexico
Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being ABB Ltd, Advantech Co. Ltd, American Portwell Technology Inc. (Posiflex Technology, Inc.), Beckhoff Automation GmbH & Co. KG, DFI (Diamond Flower Inc), General Electric Co., Kontron S&T AG, Omron Corporation, Rockwell Automation, Inc, Schneider Electric SE and Siemens AG.

Key Questions Answered in This Report:

How has the global industrial PC market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global industrial PC market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the display type?

What is the breakup of the market based on the sales channel?

What is the breakup of the market based on the end use industry?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global industrial PC market and who are the key players?

What is the degree of competition in the industry?

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