

Industrial Grade PC Market Size, Share, and Outlook, 2025 Report- By Type (Panel Industrial PC, Box Industrial PC, Embedded Industrial PC, DIN Rail Industrial PC, Rack Mount Industrial PC, Thin Client Industrial PC), By Application (Machine control and monitor, Surveillance for public safety, Fleet management, Automated traffic control, Others), By RAM Size (0 to 2 GB, 4 to 6 GB, Above 6GB), By Operating System (Android, Windows, IOS), By Network Mode (3G, 4G), 2018-2032

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Abstracts

Industrial Grade PC Market Outlook

The Industrial Grade PC Market size is expected to register a growth rate of 4.6% during the forecast period from \$5.86 Billion in 2025 to \$8 Billion in 2032. The Industrial Grade PC market is a thriving business that is poised to keep growing and presents potential growth opportunities for companies across the industry value chain.

The comprehensive market research report presents 12-year historic and forecast data on Industrial Grade PC segments across 22 countries from 2021 to 2032. Key segments in the report include By Type (Panel Industrial PC, Box Industrial PC, Embedded Industrial PC, DIN Rail Industrial PC, Rack Mount Industrial PC, Thin Client Industrial PC), By Application (Machine control and monitor, Surveillance for public safety, Fleet management, Automated traffic control, Others), By RAM Size (0 to 2 GB, 4 to 6 GB, Above 6GB), By Operating System (Android, Windows, IOS), By Network

Mode (3G, 4G). Over 70 tables and charts showcase findings from our latest survey report on Industrial Grade PC markets.

Industrial Grade PC Market Insights, 2025

The industrial grade PC market is evolving rapidly as manufacturing, automation, energy, and transportation industries demand rugged, high-performance computing solutions capable of withstanding extreme conditions. Unlike consumer-grade computers, industrial PCs are designed for continuous operation in harsh environments, featuring high shock resistance, fanless cooling, and extended temperature ranges. The adoption of Industry 4.0, smart manufacturing, and industrial IoT (IIoT) is driving demand for industrial PCs that integrate real-time data processing, edge computing, and AI-powered analytics for predictive maintenance and process optimization. Leading industrial PC manufacturers are incorporating advanced cybersecurity features, modular designs, and high-speed connectivity options such as 5G and fiber optics to enhance operational efficiency and data security. As automation expands across sectors such as logistics, healthcare, and agriculture, industrial PCs are becoming indispensable tools for driving digital transformation and real-time decision-making in mission-critical applications.

Five Trends that will define global Industrial Grade PC market in 2025 and Beyond

A closer look at the multi-million market for Industrial Grade PC identifies rapidly shifting consumer preferences across categories. By focusing on growth and resilience, leading Industrial Grade PC companies are prioritizing their investments across categories, markets, and geographies. The report analyses the most important market trends shaping the new landscape to support better decisions for the long and short-term future. The impact of tariffs by the US administration also significantly impact the profitability of Industrial Grade PC vendors.

What are the biggest opportunities for growth in the Industrial Grade PC industry?

The Industrial Grade PC sector demonstrated remarkable resilience over the past year across developed and developing economies. Further, the market presents significant opportunities to leverage the existing momentum towards actions by 2032. On the other hand, recent macroeconomic developments including rising inflation and supply chain disruptions are putting pressure on companies. The chapter assists users to identify growth avenues and address business challenges to make informed commercial decisions with unique insights, data forecasts, and in-depth market analyses.

Industrial Grade PC Market Segment Insights

The Industrial Grade PC industry presents strong offers across categories. The analytical report offers forecasts of Industrial Grade PC industry performance across segments and countries. Key segments in the industry include%li%By Type (Panel Industrial PC, Box Industrial PC, Embedded Industrial PC, DIN Rail Industrial PC, Rack Mount Industrial PC, Thin Client Industrial PC), By Application (Machine control and monitor, Surveillance for public safety, Fleet management, Automated traffic control, Others), By RAM Size (0 to 2 GB, 4 to 6 GB, Above 6GB), By Operating System (Android, Windows, IOS), By Network Mode (3G, 4G). The largest types, applications, and sales channels, fastest growing segments, and the key factors driving each of the categories are included in the report.

Forecasts of each segment across five regions are provided from 2021 through 2032 for Asia Pacific, North America, Europe, South America, Middle East, and African regions. In addition, Industrial Grade PC market size outlook is provided for 22 countries across these regions.

Market Value Chain

The chapter identifies potential companies and their operations across the global Industrial Grade PC industry ecosystem. It assists decision-makers in evaluating global Industrial Grade PC market fundamentals, market dynamics, and disruptive trends across the value chain segments.

Scenario Analysis and Forecasts

Strategic decision-making in the Industrial Grade PC industry is multi-faceted with the increased need for planning across scenarios. The report provides forecasts across three case scenarios%li%low growth, reference case, and high growth cases.

Asia Pacific Industrial Grade PC Market Analysis%li%A Promising Growth Arena for Business Expansion

As companies increasingly expand across promising Asia Pacific markets with over 4.5 billion population, the medium-to-long-term future remains robust. The presence of the fastest-growing economies such as China, India, Thailand, Indonesia, and Vietnam coupled with strengthening middle-class populations and rising disposable incomes

drive the market. In particular, China and India are witnessing rapid shifts in consumer purchasing behavior. China is recovering steadily with optimistic forecasts for 2025. Further, Japanese and South Korean markets remain stable with most companies focusing on new product launches and diversification of sales channels.

The State of Europe Industrial Grade PC Industry 2025%li%Focus on Accelerating Competitiveness

As companies opt for an integrated agenda for competitiveness, the year 2025 presents optimistic scenarios for companies across the ecosystem. With signs of economic recovery across markets, companies are increasing their investments. Europe is one of the largest markets for Industrial Grade PC with demand from both Western Europe and Eastern European regions increasing over the medium to long-term future. Increasing omnichannel shopping amidst robust consumer demand for value purchases shapes the market outlook. The report analyses the key Industrial Grade PC market drivers and opportunities across Germany, France, the United Kingdom, Spain, Italy, Russia, and other Europe.

The US Industrial Grade PC market Insights%li%Vendors are exploring new opportunities within the US Industrial Grade PC industry.

Easing inflation coupled with strengthening consumer sentiment is encouraging aggressive actions from the US Industrial Grade PC companies. Market players consistently focusing on innovation and pursuing new ways to create value are set to excel in 2025. In addition, the Canadian and Mexican markets offer lucrative growth pockets for manufacturers and vendors. Focus on private-brand offerings and promotions, diversified sales channels, expansion into niche segments, adoption of advanced technologies, and sustainability are widely observed across the North American Industrial Grade PC market.

Latin American Industrial Grade PC market outlook rebounds in line with economic growth.

Underlying demand remains higher among urban consumers with an optimistic economic outlook across Brazil, Argentina, Chile, and other South and Central American countries. Increased consumer spending has been reported in Q1 -2025 and the prospects remain strong for rest of 2025. Aggressive ecosystem moves to create new sources of income are widely observed across markets in the region. Marketing activities focused on customer insights, operations, and support functions are quickly

gaining business growth in the region.

Middle East and Africa Industrial Grade PC Markets%li%New Opportunities for Companies Harnessing Diversity

Rapid growth in burgeoning urban locations coupled with a young and fast-growing population base is attracting new investments in the Middle East and African Industrial Grade PC markets. Designing expansion and marketing strategies to cater to the local consumer base supports the market prospects. In addition to Nigeria, Algeria, South Africa, and other markets, steady growth markets in Ethiopia, Rwanda, Ghana, Tanzania, the Democratic Republic of Congo, and others present significant prospects for companies. On the other hand, Middle Eastern Industrial Grade PC markets including the UAE, Saudi Arabia, Qatar, and Oman continue to offer lucrative pockets of growth.

Competitive Landscape%li%How Industrial Grade PC companies outcompete in 2025?

The ability to respond quickly to evolving consumer preferences and adapt businesses to niche consumer segments remains a key growth factor. The report identifies the leading companies in the industry and provides their revenue for 2024. The market shares of each company are also included in the report. Further, business profiles, SWOT analysis, and financial analysis of each company are provided in detail. Key companies analyzed in the report include Advantech Co. Ltd, Beckhoff Automation GmbH & Co. Kg, Lanner Electronics, MiTAC International Corp, Mitsubishi Electric Corp, OMRON Corp, Omron Corp, Rockwell Automation Inc, Schneider Electric SE, Siemens AG.

Industrial Grade PC Market Segmentation

By Type

Panel Industrial PC

Box Industrial PC

Embedded Industrial PC

DIN Rail Industrial PC

Rack Mount Industrial PC

Thin Client Industrial PC

By Application

Machine control and monitor

Surveillance for public safety

Fleet management

Automated traffic control

Others

By RAM Size

0 to 2 GB

4 to 6 GB

Above 6GB

By Operating System

Android

Windows

IOS

By Network Mode

3G

4G

Leading Companies

Advantech Co. Ltd

Beckhoff Automation GmbH & Co. Kg

Lanner Electronics

MiTAC International Corp

Mitsubishi Electric Corp

OMRON Corp

Omron Corp

Rockwell Automation Inc

Schneider Electric SE

Siemens AG

Reasons to Buy the report

Make informed decisions through long and short-term forecasts across 22 countries and segments.

Evaluate market fundamentals, dynamics, and disrupting trends set to shape 2025 and beyond.

Gain a clear understanding of the competitive landscape, with product portfolio and growth strategies.

Get an integrated understanding of the entire market ecosystem and companies.

Stay ahead of the competition through plans for growth in a changing environment for your geographic expansion.

Assess the impact of advanced technologies and identify growth opportunities based on actionable data and insights.

Get free Excel spreadsheet and PPT versions along with the report PDF.

Contents

1. TABLE OF CONTENTS

List of Figures and Tables

2. EXECUTIVE SUMMARY

2.1 Key Highlights

2.1.1 Industrial Grade PC Market Size Outlook, 2018-2024 and 2025-2032

2.1.2 Largest Industrial Grade PC Market Types and Applications

2.1.3 Fastest Growing Segments

2.1.4 Potential Markets

2.1.5 Market Concentration

2.2 Market Scope and Segmentation

2.2.1 Market Scope- Segments

2.2.2 Market Scope- Countries

2.2.3 Macroeconomic and Demographic Outlook

2.2.4 Abbreviations

2.2.5 Units and Currency Conversions

3. RESEARCH METHODOLOGY

3.1 Primary Research Surveys

3.2 Secondary Data Sources

3.3 Data Triangulation

3.4 Forecast Methodology

3.5 Assumptions and Limitations

4. INTRODUCTION TO GLOBAL INDUSTRIAL GRADE PC MARKET IN 2025

4.1 Industry Panorama

4.2 Leading Companies Profiled in the Study

4.3 Asia Pacific Markets offer Robust Market Prospects for New Entrants

4.4 Market Dynamics

4.4.1 Market Dynamics- Trends and Drivers

4.4.2 Market Dynamics- Opportunities and Challenges

4.5 Regional Analysis

4.6 Porter's Five Force Analysis

- 4.6.1 Intensity of Competitive Rivalry
- 4.6.2 Threat of New Entrants
- 4.6.3 Threat of Substitutes
- 4.6.4 Bargaining Power of Buyers
- 4.6.5 Bargaining Power of Suppliers
- 4.7 Industrial Grade PC Industry Value Chain Analysis
 - 4.7.1 Stage of Value Chain
 - 4.7.2 Key Activities of Companies
 - 4.7.3 Companies Included in Each Stage
 - 4.7.4 Key Insights

5. INDUSTRIAL GRADE PC MARKET OUTLOOK TO 2032

- 5.1 Market Size Forecast by Type, 2021-2024 and 2025-2032
- 5.2 Market Size Forecast by Application, 2021-2024 and 2024-2032
- 5.3 Market Size Forecast by Geography, 2021-2024 and 2024-2032

By Type

Panel Industrial PC

Box Industrial PC

Embedded Industrial PC

DIN Rail Industrial PC

Rack Mount Industrial PC

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By Application

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Above 6GB

By Operating System

Android

Windows

IOS

By Network Mode

3G

4G

6. GLOBAL INDUSTRIAL GRADE PC MARKET OUTLOOK ACROSS GROWTH SCENARIOS

6.1 Low Growth Scenario

6.2 Base/Reference Case

6.3 High Growth Scenario

6. NORTH AMERICA INDUSTRIAL GRADE PC MARKET SIZE OUTLOOK

6.1 Key Market Statistics, 2024

6.2 North America Industrial Grade PC Market Trends and Growth Opportunities

6.2.1 North America Industrial Grade PC Market Outlook by Type

6.2.2 North America Industrial Grade PC Market Outlook by Application

6.3 North America Industrial Grade PC Market Outlook by Country

6.3.1 The US Industrial Grade PC Market Outlook, 2021- 2032

6.3.2 Canada Industrial Grade PC Market Outlook, 2021- 2032

6.3.3 Mexico Industrial Grade PC Market Outlook, 2021- 2032

7. EUROPE INDUSTRIAL GRADE PC MARKET SIZE OUTLOOK

7.1 Key Market Statistics, 2024

7.2 Europe Industrial Grade PC Market Trends and Growth Opportunities

7.2.1 Europe Industrial Grade PC Market Outlook by Type

7.2.2 Europe Industrial Grade PC Market Outlook by Application

7.3 Europe Industrial Grade PC Market Outlook by Country

7.3.2 Germany Industrial Grade PC Market Outlook, 2021- 2032

7.3.3 France Industrial Grade PC Market Outlook, 2021- 2032

7.3.4 The UK Industrial Grade PC Market Outlook, 2021- 2032

7.3.5 Spain Industrial Grade PC Market Outlook, 2021- 2032

7.3.6 Italy Industrial Grade PC Market Outlook, 2021- 2032

7.3.7 Russia Industrial Grade PC Market Outlook, 2021- 2032

7.3.8 Rest of Europe Industrial Grade PC Market Outlook, 2021- 2032

8. ASIA PACIFIC INDUSTRIAL GRADE PC MARKET SIZE OUTLOOK

8.1 Key Market Statistics, 2024

8.2 Asia Pacific Industrial Grade PC Market Trends and Growth Opportunities

8.2.1 Asia Pacific Industrial Grade PC Market Outlook by Type

8.2.2 Asia Pacific Industrial Grade PC Market Outlook by Application

8.3 Asia Pacific Industrial Grade PC Market Outlook by Country

8.3.1 China Industrial Grade PC Market Outlook, 2021- 2032

8.3.2 India Industrial Grade PC Market Outlook, 2021- 2032

8.3.3 Japan Industrial Grade PC Market Outlook, 2021- 2032

8.3.4 South Korea Industrial Grade PC Market Outlook, 2021- 2032

8.3.5 Australia Industrial Grade PC Market Outlook, 2021- 2032

8.3.6 South East Asia Industrial Grade PC Market Outlook, 2021- 2032

8.3.7 Rest of Asia Pacific Industrial Grade PC Market Outlook, 2021- 2032

9. SOUTH AMERICA INDUSTRIAL GRADE PC MARKET SIZE OUTLOOK

9.1 Key Market Statistics, 2024

9.2 South America Industrial Grade PC Market Trends and Growth Opportunities

9.2.1 South America Industrial Grade PC Market Outlook by Type

9.2.2 South America Industrial Grade PC Market Outlook by Application

9.3 South America Industrial Grade PC Market Outlook by Country

9.3.1 Brazil Industrial Grade PC Market Outlook, 2021- 2032

9.3.2 Argentina Industrial Grade PC Market Outlook, 2021- 2032

9.3.3 Rest of South and Central America Industrial Grade PC Market Outlook, 2021- 2032

10. MIDDLE EAST AND AFRICA INDUSTRIAL GRADE PC MARKET SIZE OUTLOOK

10.1 Key Market Statistics, 2024

10.2 Middle East and Africa Industrial Grade PC Market Trends and Growth Opportunities

10.2.1 Middle East and Africa Industrial Grade PC Market Outlook by Type

10.2.2 Middle East and Africa Industrial Grade PC Market Outlook by Application

10.3 Middle East and Africa Industrial Grade PC Market Outlook by Country

10.3.1 Saudi Arabia Industrial Grade PC Market Outlook, 2021- 2032

10.3.2 The UAE Industrial Grade PC Market Outlook, 2021- 2032

- 10.3.3 Rest of Middle East Industrial Grade PC Market Outlook, 2021- 2032**
- 10.3.4 South Africa Industrial Grade PC Market Outlook, 2021- 2032**
- 10.3.5 Egypt Industrial Grade PC Market Outlook, 2021- 2032**
- 10.3.6 Rest of Africa Industrial Grade PC Market Outlook, 2021- 2032**

11. COMPANY PROFILES

11.1 Leading 10 Companies

Advantech Co. Ltd
Beckhoff Automation GmbH & Co. Kg
Lanner Electronics
MiTAC International Corp
Mitsubishi Electric Corp
OMRON Corp
Omron Corp
Rockwell Automation Inc
Schneider Electric SE
Siemens AG

11.2 Overview

11.3 Products and Services

11.4 SWOT Profile

12. APPENDIX

12.1 Subscription Options

12.2 Customization Options

12.3 Publisher Details

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