

Global HMI Panel PC Market Research Report 2024(Status and Outlook)

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Abstracts

Report Overview

HMI Panel PCs, also known as Human-Machine Interface Panel PCs, are specialized computing devices that provide a user interface for controlling and monitoring various industrial processes. These devices combine the functionality of a traditional PC with a touchscreen display, making them ideal for use in manufacturing, automation, and other industrial applications. HMI Panel PCs are designed to withstand harsh industrial environments and offer features such as rugged enclosures, high processing power, and compatibility with industrial protocols.

The current market size for HMI Panel PCs in 2023 is estimated at USD 1.2 billion. The market is projected to grow at a Compound Annual Growth Rate (CAGR) of 6.78% from 2024 to 2032. Key growth drivers for the HMI Panel PC market include the increasing adoption of automation in industries, the demand for improved operational efficiency, and the growing need for real-time data monitoring and control in industrial processes.

One of the prominent trends in the HMI Panel PC market is the integration of Internet of Things (IoT) technology. HMI Panel PCs are increasingly being equipped with IoT capabilities to enable connectivity with other devices and systems, facilitating data exchange and remote monitoring. This trend is driven by the industry's focus on achieving greater automation, efficiency, and predictive maintenance.

Another significant trend is the shift towards cloud-based HMI solutions. Cloud integration allows for centralized data storage, analysis, and access to real-time information from anywhere, enhancing decision-making processes and overall operational efficiency. This trend is particularly appealing to industries looking to

leverage the benefits of cloud computing in their industrial processes.

Furthermore, the market is witnessing a rise in demand for HMI Panel PCs with enhanced cybersecurity features. As industrial systems become more interconnected, the risk of cyber threats increases. Manufacturers are responding by incorporating robust cybersecurity measures into HMI Panel PCs to ensure the integrity and security of industrial operations.

In terms of regional market distribution, leading markets for HMI Panel PCs include North America, Europe, and Asia Pacific. North America dominates the market due to the presence of key industrial sectors such as manufacturing, automotive, and aerospace. Europe follows closely, driven by advancements in industrial automation and Industry 4.0 initiatives. Asia Pacific is experiencing rapid growth in the HMI Panel PC market, fueled by the expanding manufacturing sector in countries like China, Japan, and South Korea.

Key challenges facing the HMI Panel PC market include the need for standardization of communication protocols across different industrial systems, ensuring compatibility and seamless integration. Additionally, the market faces challenges related to the high initial investment required for deploying HMI Panel PC solutions, particularly for small and medium-sized enterprises.

In conclusion, the HMI Panel PC market is poised for steady growth driven by factors such as automation adoption, IoT integration, cloud-based solutions, and cybersecurity enhancements. Manufacturers in this space should focus on innovation, interoperability, and cybersecurity to capitalize on the growing demand for advanced HMI solutions in industrial settings.

This report provides a deep insight into the global HMI Panel PC market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global HMI Panel PC Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps

the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the HMI Panel PC market in any manner.

Global HMI Panel PC Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

Beckhoff

AIS

Winmate Inc.

Advantech

Adlink

Schneider Electric

Phoenix Contact

Amplicon

Syslogic

Axiomtek

B&R Industrial Automation GmbH (ABB)

Kontron

Siemens

L-Tron

Fastwel

Emerson Electric

Mitsubishi

Market Segmentation (by Type)

With Touch Screen

Without Touch Screen

Market Segmentation (by Application)

Commercial Office

Food and Beverage

Medical and Pharmaceutical

Mining

Railway

Navigation

Agriculture

Other

Geographic Segmentation

North America (USA, Canada, Mexico)

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

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

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the HMI Panel PC Market

Overview of the regional outlook of the HMI Panel PC Market:

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your

competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the HMI Panel PC Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 introduces the basic situation of the main companies in the market in detail,

including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of HMI Panel PC

1.2 Key Market Segments

1.2.1 HMI Panel PC Segment by Type

1.2.2 HMI Panel PC Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 HMI PANEL PC MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global HMI Panel PC Market Size (M USD) Estimates and Forecasts (2019-2032)

2.1.2 Global HMI Panel PC Sales Estimates and Forecasts (2019-2032)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

2.4 Macroeconomic Analysis

3 HMI PANEL PC MARKET COMPETITIVE LANDSCAPE

3.1 Global HMI Panel PC Sales by Manufacturers (2019-2024)

3.2 Global HMI Panel PC Revenue Market Share by Manufacturers (2019-2024)

3.3 HMI Panel PC Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.4 Global HMI Panel PC Average Price by Manufacturers (2019-2024)

3.5 Manufacturers HMI Panel PC Sales Sites, Area Served, Product Type

3.6 HMI Panel PC Market Competitive Situation and Trends

3.6.1 HMI Panel PC Market Concentration Rate

3.6.2 Global 5 and 10 Largest HMI Panel PC Players Market Share by Revenue

3.6.3 Mergers & Acquisitions, Expansion

4 HMI PANEL PC INDUSTRY CHAIN ANALYSIS

- 4.1 HMI Panel PC Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF HMI PANEL PC MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Market Restraints
- 5.5 Industry News
 - 5.5.1 New Product Developments
 - 5.5.2 Mergers & Acquisitions
 - 5.5.3 Expansions
 - 5.5.4 Collaboration/Supply Contracts
- 5.6 Industry Policies

6 HMI PANEL PC MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global HMI Panel PC Sales Market Share by Type (2019-2024)
- 6.3 Global HMI Panel PC Market Size Market Share by Type (2019-2024)
- 6.4 Global HMI Panel PC Price by Type (2019-2024)

7 HMI PANEL PC MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global HMI Panel PC Market Sales by Application (2019-2024)
- 7.3 Global HMI Panel PC Market Size (M USD) by Application (2019-2024)
- 7.4 Global HMI Panel PC Sales Growth Rate by Application (2019-2024)

8 HMI PANEL PC MARKET SALES BY REGION

- 8.1 Global HMI Panel PC Sales by Region
 - 8.1.1 Global HMI Panel PC Sales by Region
 - 8.1.2 Global HMI Panel PC Sales Market Share by Region
- 8.2 Global HMI Panel PC Market Size by Region
 - 8.2.1 Global HMI Panel PC Market Size by Region

8.2.2 Global HMI Panel PC Market Size Market Share by Region

8.3 North America

8.3.1 North America HMI Panel PC Sales by Country

8.3.2 North America HMI Panel PC Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe HMI Panel PC Sales by Country

8.4.2 Europe HMI Panel PC Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Russia Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific HMI Panel PC Sales by Region

8.5.2 China

8.5.3 Japan

8.5.4 South Korea

8.5.5 India

8.5.6 Southeast Asia

8.6 Asia Pacific

8.6.1 Asia Pacific HMI Panel PC Market Size by Region

8.6.2 Asia Pacific HMI Panel PC Market Size by Region

8.6.3 China

8.6.4 Japan

8.6.5 South Korea

8.6.6 India

8.6.7 Southeast Asia

8.7 South America

8.7.1 South America HMI Panel PC Sales by Country

8.7.2 South America HMI Panel PC Market Size by Country

8.7.3 Brazil

8.7.4 Argentina

8.7.5 Columbia

8.8 Middle East and Africa

8.8.1 Middle East and Africa HMI Panel PC Sales by Region

8.8.2 Middle East and Africa HMI Panel PC Market Size by Region

8.8.3 Saudi Arabia

8.8.4 UAE

8.8.5 Egypt

8.8.6 Nigeria

8.8.7 South Africa

9 HMI PANEL PC MARKET PRODUCTION BY REGION

9.1 Global Production of HMI Panel PC by Region (2019-2024)

9.2 Global HMI Panel PC Revenue Market Share by Region (2019-2024)

9.3 Global HMI Panel PC Production, Revenue, Price and Gross Margin (2019-2024)

9.4 North America HMI Panel PC Production

9.4.1 North America HMI Panel PC Production Growth Rate (2019-2024)

9.4.2 North America HMI Panel PC Production, Revenue, Price and Gross Margin (2019-2024)

9.5 Europe HMI Panel PC Production

9.5.1 Europe HMI Panel PC Production Growth Rate (2019-2024)

9.5.2 Europe HMI Panel PC Production, Revenue, Price and Gross Margin (2019-2024)

9.6 Japan HMI Panel PC Production (2019-2024)

9.6.1 Japan HMI Panel PC Production Growth Rate (2019-2024)

9.6.2 Japan HMI Panel PC Production, Revenue, Price and Gross Margin (2019-2024)

9.7 China HMI Panel PC Production (2019-2024)

9.7.1 China HMI Panel PC Production Growth Rate (2019-2024)

9.7.2 China HMI Panel PC Production, Revenue, Price and Gross Margin (2019-2024)

10 KEY COMPANIES PROFILE

10.1 Beckhoff

10.1.1 Beckhoff HMI Panel PC Basic Information

10.1.2 Beckhoff HMI Panel PC Product Overview

10.1.3 Beckhoff HMI Panel PC Product Market Performance

10.1.4 Beckhoff Business Overview

10.1.5 Beckhoff HMI Panel PC SWOT Analysis

10.1.6 Beckhoff Recent Developments

10.2 AIS

10.2.1 AIS HMI Panel PC Basic Information

10.2.2 AIS HMI Panel PC Product Overview

10.2.3 AIS HMI Panel PC Product Market Performance

- 10.2.4 AIS Business Overview
- 10.2.5 AIS HMI Panel PC SWOT Analysis
- 10.2.6 AIS Recent Developments
- 10.3 Winmate Inc.
 - 10.3.1 Winmate Inc. HMI Panel PC Basic Information
 - 10.3.2 Winmate Inc. HMI Panel PC Product Overview
 - 10.3.3 Winmate Inc. HMI Panel PC Product Market Performance
 - 10.3.4 Winmate Inc. HMI Panel PC SWOT Analysis
 - 10.3.5 Winmate Inc. Business Overview
 - 10.3.6 Winmate Inc. Recent Developments
- 10.4 Advantech
 - 10.4.1 Advantech HMI Panel PC Basic Information
 - 10.4.2 Advantech HMI Panel PC Product Overview
 - 10.4.3 Advantech HMI Panel PC Product Market Performance
 - 10.4.4 Advantech Business Overview
 - 10.4.5 Advantech Recent Developments
- 10.5 Adlink
 - 10.5.1 Adlink HMI Panel PC Basic Information
 - 10.5.2 Adlink HMI Panel PC Product Overview
 - 10.5.3 Adlink HMI Panel PC Product Market Performance
 - 10.5.4 Adlink Business Overview
 - 10.5.5 Adlink Recent Developments
- 10.6 Schneider Electric
 - 10.6.1 Schneider Electric HMI Panel PC Basic Information
 - 10.6.2 Schneider Electric HMI Panel PC Product Overview
 - 10.6.3 Schneider Electric HMI Panel PC Product Market Performance
 - 10.6.4 Schneider Electric Business Overview
 - 10.6.5 Schneider Electric Recent Developments
- 10.7 Phoenix Contact
 - 10.7.1 Phoenix Contact HMI Panel PC Basic Information
 - 10.7.2 Phoenix Contact HMI Panel PC Product Overview
 - 10.7.3 Phoenix Contact HMI Panel PC Product Market Performance
 - 10.7.4 Phoenix Contact Business Overview
 - 10.7.5 Phoenix Contact Recent Developments
- 10.8 Amplicon
 - 10.8.1 Amplicon HMI Panel PC Basic Information
 - 10.8.2 Amplicon HMI Panel PC Product Overview
 - 10.8.3 Amplicon HMI Panel PC Product Market Performance
 - 10.8.4 Amplicon Business Overview

- 10.8.5 Amplicon Recent Developments
- 10.9 Syslogic
 - 10.9.1 Syslogic HMI Panel PC Basic Information
 - 10.9.2 Syslogic HMI Panel PC Product Overview
 - 10.9.3 Syslogic HMI Panel PC Product Market Performance
 - 10.9.4 Syslogic Business Overview
 - 10.9.5 Syslogic Recent Developments
- 10.10 Axiomtek
 - 10.10.1 Axiomtek HMI Panel PC Basic Information
 - 10.10.2 Axiomtek HMI Panel PC Product Overview
 - 10.10.3 Axiomtek HMI Panel PC Product Market Performance
 - 10.10.4 Axiomtek Business Overview
 - 10.10.5 Axiomtek Recent Developments
- 10.11 BandR Industrial Automation GmbH (ABB)
 - 10.11.1 BandR Industrial Automation GmbH (ABB) HMI Panel PC Basic Information
 - 10.11.2 BandR Industrial Automation GmbH (ABB) HMI Panel PC Product Overview
 - 10.11.3 BandR Industrial Automation GmbH (ABB) HMI Panel PC Product Market Performance
 - 10.11.4 BandR Industrial Automation GmbH (ABB) Business Overview
 - 10.11.5 BandR Industrial Automation GmbH (ABB) Recent Developments
- 10.12 Kontron
 - 10.12.1 Kontron HMI Panel PC Basic Information
 - 10.12.2 Kontron HMI Panel PC Product Overview
 - 10.12.3 Kontron HMI Panel PC Product Market Performance
 - 10.12.4 Kontron Business Overview
 - 10.12.5 Kontron Recent Developments
- 10.13 Siemens
 - 10.13.1 Siemens HMI Panel PC Basic Information
 - 10.13.2 Siemens HMI Panel PC Product Overview
 - 10.13.3 Siemens HMI Panel PC Product Market Performance
 - 10.13.4 Siemens Business Overview
 - 10.13.5 Siemens Recent Developments
- 10.14 L-Tron
 - 10.14.1 L-Tron HMI Panel PC Basic Information
 - 10.14.2 L-Tron HMI Panel PC Product Overview
 - 10.14.3 L-Tron HMI Panel PC Product Market Performance
 - 10.14.4 L-Tron Business Overview
 - 10.14.5 L-Tron Recent Developments
- 10.15 Fastwel

- 10.15.1 Fastwel HMI Panel PC Basic Information
- 10.15.2 Fastwel HMI Panel PC Product Overview
- 10.15.3 Fastwel HMI Panel PC Product Market Performance
- 10.15.4 Fastwel Business Overview
- 10.15.5 Fastwel Recent Developments
- 10.16 Emerson Electric
 - 10.16.1 Emerson Electric HMI Panel PC Basic Information
 - 10.16.2 Emerson Electric HMI Panel PC Product Overview
 - 10.16.3 Emerson Electric HMI Panel PC Product Market Performance
 - 10.16.4 Emerson Electric Business Overview
 - 10.16.5 Emerson Electric Recent Developments
- 10.17 Mitsubishi
 - 10.17.1 Mitsubishi HMI Panel PC Basic Information
 - 10.17.2 Mitsubishi HMI Panel PC Product Overview
 - 10.17.3 Mitsubishi HMI Panel PC Product Market Performance
 - 10.17.4 Mitsubishi Business Overview
 - 10.17.5 Mitsubishi Recent Developments

11 HMI PANEL PC MARKET FORECAST BY REGION

- 11.1 Global HMI Panel PC Market Size Forecast
- 11.2 Global HMI Panel PC Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe HMI Panel PC Market Size Forecast by Country
 - 11.2.3 Asia Pacific HMI Panel PC Market Size Forecast by Region
 - 11.2.4 South America HMI Panel PC Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of HMI Panel PC by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2025-2032)

- 12.1 Global HMI Panel PC Market Forecast by Type (2025-2032)
 - 12.1.1 Global Forecasted Sales of HMI Panel PC by Type (2025-2032)
 - 12.1.2 Global HMI Panel PC Market Size Forecast by Type (2025-2032)
 - 12.1.3 Global Forecasted Price of HMI Panel PC by Type (2025-2032)
- 12.2 Global HMI Panel PC Market Forecast by Application (2025-2032)
 - 12.2.1 Global HMI Panel PC Sales (K Units) Forecast by Application
 - 12.2.2 Global HMI Panel PC Market Size (M USD) Forecast by Application (2025-2032)

13 CONCLUSION AND KEY FINDINGS

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