

Global PC-Based Automation Market Size study, By Offering (Hardware, Software), By Component (IPCs, HMIs, PLCs, SCADA), By Sales Channel (Direct Sales, Indirect Sales), By Industry (Process {Oil & Gas, Chemicals, Pharmaceuticals, Mining & Metals, Food & Beverages, Energy & Power, Others}, Discrete {Automotive, Semiconductor & Electronics, Aerospace & Defense, Medical Devices, Machine Manufacturing, Others}), and Regional Forecasts 2021-2027

<https://marketpublishers.com/r/GDD32B77B251EN.html>

Date: January 2022

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GDD32B77B251EN

Abstracts

Global PC-Based Automation Market is valued approximately USD 32.74 Billion in 2020 and is anticipated to grow with a healthy growth rate of more than 4.9% over the forecast period 2021-2027.

The PC-based automation entails the usage of the software to direct the real-time (RTOS) application, written in the C#, C++, and .NET, which can perform several functions like machine vision and motion control across the diverse industrial environment. The rising need for precise, analytical, and growing productivity is boosting the need for PC-based automation. Additionally, the evolution of the IIoT and rising demand for smart automation solutions, growing need for competent monitoring in manufacturing plants are stimulating the market demand. Moreover, the launch of sensor gateways also facilitates the introduction of the Internet of Things (IoT) in manufacturing setups, which further fuels market development. For instance, in February 2020, SICK unveils the launch of its SIG200 ProfiNet Sensor Integration

Gateway, which is designed to incorporate sensor data transparently into higher-level systems. However, high investment costs pertaining to the implementation of pc-based automation solutions impede the growth of the market over the forecast period of 2021-2027. Also, the incorporation of the PC-based automation systems and PLCs is anticipated to act as a catalyzing factor for the market demand during the forecast period.

The key regions considered for the global PC-Based Automation market study includes Asia Pacific, North America, Europe, Latin America and the Rest of the World. North America is the leading region across the world in terms of market share owing to the execution of favorable government policies, and penetration of novel technologies across various verticals. Whereas, Asia-Pacific is anticipated to exhibit the highest CAGR over the forecast period 2021-2027. Factors such as rapid industrialization majorly among the emerging nations such as India and China, as well as growing investments for the development of the manufacturing segment would create lucrative growth prospects for the PC-Based Automation market across the Asia-Pacific region.

Major market player included in this report are:

Beckhoff Automation

Mitsubishi Electric

Honeywell

Kontron S&T

OMRON

Rockwell Automation

Yokogawa Electric

Advantech

Schneider Electric

Emerson Electric

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:
By Offering

Hardware

Software

By Component

Intrusion Prevention System (IPCs)

Human-machine interfaces (HMIs)

Programmable Logic Controller (PLCs)

Supervisory control and data acquisition (SCADA)By Sales Channel

Direct Sales

Indirect Sales

By Industry

Process Industries

Oil & Gas

Chemicals

Pharmaceuticals

Mining & Metals

Food & Beverages

Energy & Power

Others

Discrete Industries

Automotive

Semiconductor & Electronics

Aerospace & Defense

Medical Devices

Machine Manufacturing

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
Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019

Base year – 2020

Forecast period – 2021 to 2027

Target Audience of the Global PC-Based Automation Market in Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists

Value-Added Resellers (VARs)

Third-party knowledge providers

Investment bankers

Investors

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2019-2027 (USD Billion)
 - 1.2.1. PC-Based Automation Market, by Region, 2019-2027 (USD Billion)
 - 1.2.2. PC-Based Automation Market, by Offering, 2019-2027 (USD Billion)
 - 1.2.3. PC-Based Automation Market, by Component, 2019-2027 (USD Billion)
 - 1.2.4. PC-Based Automation Market, by Sales Channel, 2019-2027 (USD Billion)
 - 1.2.5. PC-Based Automation Market, by Industry, 2019-2027 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL PC-BASED AUTOMATION MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Scope of the Study
 - 2.2.2. Industry Evolution
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL PC-BASED AUTOMATION MARKET DYNAMICS

- 3.1. PC-Based Automation Market Impact Analysis (2019-2027)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Evolution of IIoT and growing demand for smart automation solutions
 - 3.1.1.2. Rising need for efficient monitoring in manufacturing plants
 - 3.1.2. Market Challenges
 - 3.1.2.1. High investment costs pertaining to the implementation of pc-based automation solutions
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Integration of PC-Based Automation Systems and PLCs

CHAPTER 4. GLOBAL PC-BASED AUTOMATION MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers
 - 4.1.2. Bargaining Power of Buyers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
 - 4.1.6. Futuristic Approach to Porter's 5 Force Model (2018-2027)
- 4.2. PEST Analysis
 - 4.2.1. Political
 - 4.2.2. Economical
 - 4.2.3. Social
 - 4.2.4. Technological
- 4.3. Investment Adoption Model
- 4.4. Analyst Recommendation & Conclusion
- 4.5. Top investment opportunity
- 4.6. Top winning strategies

CHAPTER 5. RISK ASSESSMENT: COVID-19 IMPACT

- 5.1.1. Assessment of the overall impact of COVID-19 on the industry
- 5.1.2. Pre COVID-19 and post COVID-19 market scenario

CHAPTER 6. GLOBAL PC-BASED AUTOMATION MARKET, BY OFFERING

- 6.1. Market Snapshot
- 6.2. Global PC-Based Automation Market by Offering, Performance - Potential Analysis
- 6.3. Global PC-Based Automation Market Estimates & Forecasts by Offering 2018-2027 (USD Billion)
- 6.4. PC-Based Automation Market, Sub Segment Analysis
 - 6.4.1. Hardware
 - 6.4.2. Software

CHAPTER 7. GLOBAL PC-BASED AUTOMATION MARKET, BY COMPONENT

- 7.1. Market Snapshot
- 7.2. Global PC-Based Automation Market by Component, Performance - Potential Analysis
- 7.3. Global PC-Based Automation Market Estimates & Forecasts by Component 2018-2027 (USD Billion)

7.4. PC-Based Automation Market, Sub Segment Analysis

- 7.4.1. Intrusion Prevention System (IPCs)
- 7.4.2. Human-machine interfaces (HMIs)
- 7.4.3. Programmable Logic Controller (PLCs)

CHAPTER 8. SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA)GLOBAL PC-BASED AUTOMATION MARKET, BY SALES CHANNEL

8.1. Market Snapshot

8.2. Global PC-Based Automation Market by Sales Channel, Performance - Potential Analysis

8.3. Global PC-Based Automation Market Estimates & Forecasts by Sales Channel 2018-2027 (USD Billion)

8.4. PC-Based Automation Market, Sub Segment Analysis

- 8.4.1. Direct Sales
- 8.4.2. Indirect Sales

CHAPTER 9. GLOBAL PC-BASED AUTOMATION MARKET, BY INDUSTRY

9.1. Market Snapshot

9.2. Global PC-Based Automation Market by Industry, Performance - Potential Analysis

9.3. Global PC-Based Automation Market Estimates & Forecasts by Industry 2018-2027 (USD Billion)

9.4. PC-Based Automation Market, Sub Segment Analysis

- 9.4.1. Process Industries
 - 9.4.1.1. Oil & Gas
 - 9.4.1.2. Chemicals
 - 9.4.1.3. Pharmaceuticals
 - 9.4.1.4. Mining & Metals
 - 9.4.1.5. Food & Beverages
 - 9.4.1.6. Energy & Power
 - 9.4.1.7. Others
- 9.4.2. Discrete Industries
 - 9.4.2.1. Automotive
 - 9.4.2.2. Semiconductor & Electronics
 - 9.4.2.3. Aerospace & Defense
 - 9.4.2.4. Medical Devices
 - 9.4.2.5. Machine Manufacturing
 - 9.4.2.6. Others

CHAPTER 10. GLOBAL PC-BASED AUTOMATION MARKET, REGIONAL ANALYSIS

- 10.1. PC-Based Automation Market, Regional Market Snapshot
- 10.2. North America PC-Based Automation Market
 - 10.2.1. U.S. PC-Based Automation Market
 - 10.2.1.1. Offering estimates & forecasts, 2018-2027
 - 10.2.1.2. Component breakdown estimates & forecasts, 2018-2027
 - 10.2.1.3. Sales Channel breakdown estimates & forecasts, 2018-2027
 - 10.2.1.4. Industry estimates & forecasts, 2018-2027
 - 10.2.2. Canada PC-Based Automation Market
- 10.3. Europe PC-Based Automation Market Snapshot
 - 10.3.1. U.K. PC-Based Automation Market
 - 10.3.2. Germany PC-Based Automation Market
 - 10.3.3. France PC-Based Automation Market
 - 10.3.4. Spain PC-Based Automation Market
 - 10.3.5. Italy PC-Based Automation Market
 - 10.3.6. Rest of Europe PC-Based Automation Market
- 10.4. Asia-Pacific PC-Based Automation Market Snapshot
 - 10.4.1. China PC-Based Automation Market
 - 10.4.2. India PC-Based Automation Market
 - 10.4.3. Japan PC-Based Automation Market
 - 10.4.4. Australia PC-Based Automation Market
 - 10.4.5. South Korea PC-Based Automation Market
 - 10.4.6. Rest of Asia Pacific PC-Based Automation Market
- 10.5. Latin America PC-Based Automation Market Snapshot
 - 10.5.1. Brazil PC-Based Automation Market
 - 10.5.2. Mexico PC-Based Automation Market
- 10.6. Rest of The World PC-Based Automation Market

CHAPTER 11. COMPETITIVE INTELLIGENCE

- 11.1. Top Market Strategies
- 11.2. Company Profiles
 - 11.2.1. Beckhoff Automation
 - 11.2.1.1. Key Information
 - 11.2.1.2. Overview
 - 11.2.1.3. Financial (Subject to Data Availability)

- 11.2.1.4. Product Summary
- 11.2.1.5. Recent Developments
- 11.2.2. Mitsubishi Electric
- 11.2.3. Honeywell
- 11.2.4. Kontron S&T
- 11.2.5. OMRON
- 11.2.6. Rockwell Automation
- 11.2.7. Yokogawa Electric
- 11.2.8. Advantech
- 11.2.9. Schneider Electric
- 11.2.10. Emerson Electric

CHAPTER 12. RESEARCH PROCESS

- 12.1. Research Process
 - 12.1.1. Data Mining
 - 12.1.2. Analysis
 - 12.1.3. Market Estimation
 - 12.1.4. Validation
 - 12.1.5. Publishing
- 12.2. Research Attributes
- 12.3. Research Assumption

List Of Tables

LIST OF TABLES

TABLE 1. Global PC-Based Automation market, report scope

TABLE 2. Global PC-Based Automation market estimates & forecasts by Region
2018-2027 (USD Billion)

TABLE 3. Global PC-Based Automation market estimates & forecasts by Offering
2018-2027 (USD Billion)

TABLE 4. Global PC-Based Automation market estimates & forecasts by Component
2018-2027 (USD Billion)

TABLE 5. Global PC-Based Automation market estimates & forecasts by Sales Channel
2018-2027 (USD Billion)

TABLE 6. Global PC-Based Automation market estimates & forecasts by Industry
2018-2027 (USD Billion)

TABLE 7. Global PC-Based Automation market by segment, estimates & forecasts,
2018-2027 (USD Billion)

TABLE 8. Global PC-Based Automation market by region, estimates & forecasts,
2018-2027 (USD Billion)

TABLE 9. Global PC-Based Automation market by segment, estimates & forecasts,
2018-2027 (USD Billion)

TABLE 10. Global PC-Based Automation market by region, estimates & forecasts,
2018-2027 (USD Billion)

TABLE 11. Global PC-Based Automation market by segment, estimates & forecasts,
2018-2027 (USD Billion)

TABLE 12. Global PC-Based Automation market by region, estimates & forecasts,
2018-2027 (USD Billion)

TABLE 13. Global PC-Based Automation market by segment, estimates & forecasts,
2018-2027 (USD Billion)

TABLE 14. Global PC-Based Automation market by region, estimates & forecasts,
2018-2027 (USD Billion)

TABLE 15. Global PC-Based Automation market by segment, estimates & forecasts,
2018-2027 (USD Billion)

TABLE 16. Global PC-Based Automation market by region, estimates & forecasts,
2018-2027 (USD Billion)

TABLE 17. U.S. PC-Based Automation market estimates & forecasts, 2018-2027 (USD
Billion)

TABLE 18. U.S. PC-Based Automation market estimates & forecasts by segment
2018-2027 (USD Billion)

TABLE 19. U.S. PC-Based Automation market estimates & forecasts by segment
2018-2027 (USD Billion)

TABLE 20. Canada PC-Based Automation market estimates & forecasts, 2018-2027
(USD Billion)

TABLE 21. Canada PC-Based Automation market estimates & forecasts by segment
2018-2027 (USD Billion)

TABLE 22. Canada PC-Based Automation market estimates & forecasts by segment
2018-2027 (USD Billion)

TABLE 23. UK PC-Based Automation market estimates & forecasts, 2018-2027 (USD
Billion)

TABLE 24. UK PC-Based Automation market estimates & forecasts by segment
2018-2027 (USD Billion)

TABLE 25. UK PC-Based Automation market estimates & forecasts by segment
2018-2027 (USD Billion)

TABLE 26. Germany PC-Based Automation market estimates & forecasts, 2018-2027
(USD Billion)

TABLE 27. Germany PC-Based Automation market estimates & forecasts by segment
2018-2027 (USD Billion)

TABLE 28. Germany PC-Based Automation market estimates & forecasts by segment
2018-2027 (USD Billion)

TABLE 29. RoE PC-Based Automation market estimates & forecasts, 2018-2027 (USD
Billion)

TABLE 30. RoE PC-Based Automation market estimates & forecasts by segment
2018-2027 (USD Billion)

TABLE 31. RoE PC-Based Automation market estimates & forecasts by segment
2018-2027 (USD Billion)

TABLE 32. China PC-Based Automation market estimates & forecasts, 2018-2027
(USD Billion)

TABLE 33. China PC-Based Automation market estimates & forecasts by segment
2018-2027 (USD Billion)

TABLE 34. China PC-Based Automation market estimates & forecasts by segment
2018-2027 (USD Billion)

TABLE 35. India PC-Based Automation market estimates & forecasts, 2018-2027 (USD
Billion)

TABLE 36. India PC-Based Automation market estimates & forecasts by segment
2018-2027 (USD Billion)

TABLE 37. India PC-Based Automation market estimates & forecasts by segment
2018-2027 (USD Billion)

TABLE 38. Japan PC-Based Automation market estimates & forecasts, 2018-2027

(USD Billion)

TABLE 39. Japan PC-Based Automation market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 40. Japan PC-Based Automation market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 41. RoAPAC PC-Based Automation market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 42. RoAPAC PC-Based Automation market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 43. RoAPAC PC-Based Automation market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 44. Brazil PC-Based Automation market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 45. Brazil PC-Based Automation market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 46. Brazil PC-Based Automation market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 47. Mexico PC-Based Automation market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 48. Mexico PC-Based Automation market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 49. Mexico PC-Based Automation market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 50. RoLA PC-Based Automation market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 51. RoLA PC-Based Automation market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 52. RoLA PC-Based Automation market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 53. Row PC-Based Automation market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 54. Row PC-Based Automation market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 55. Row PC-Based Automation market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 56. List of secondary sources, used in the study of global PC-Based Automation market

TABLE 57. List of primary sources, used in the study of global PC-Based Automation market

TABLE 58. Years considered for the study

TABLE 59. Exchange rates considered

List Of Figures

LIST OF FIGURES

- FIG 1. Global PC-Based Automation market, research methodology
- FIG 2. Global PC-Based Automation market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods
- FIG 4. Global PC-Based Automation market, key trends 2020
- FIG 5. Global PC-Based Automation market, growth prospects 2021-2027
- FIG 6. Global PC-Based Automation market, porters 5 force model
- FIG 7. Global PC-Based Automation market, pest analysis
- FIG 8. Global PC-Based Automation market, value chain analysis
- FIG 9. Global PC-Based Automation market by segment, 2018 & 2027 (USD Billion)
- FIG 10. Global PC-Based Automation market by segment, 2018 & 2027 (USD Billion)
- FIG 11. Global PC-Based Automation market by segment, 2018 & 2027 (USD Billion)
- FIG 12. Global PC-Based Automation market by segment, 2018 & 2027 (USD Billion)
- FIG 13. Global PC-Based Automation market by segment, 2018 & 2027 (USD Billion)
- FIG 14. Global PC-Based Automation market, regional snapshot 2018 & 2027
- FIG 15. North America PC-Based Automation market 2018 & 2027 (USD Billion)
- FIG 16. Europe PC-Based Automation market 2018 & 2027 (USD Billion)
- FIG 17. Asia pacific PC-Based Automation market 2018 & 2027 (USD Billion)
- FIG 18. Latin America PC-Based Automation market 2018 & 2027 (USD Billion)
- FIG 19. Global PC-Based Automation market, company market share analysis (2020)

I would like to order

Product name: Global PC-Based Automation Market Size study, By Offering (Hardware, Software), By Component (IPCs, HMIs, PLCs, SCADA), By Sales Channel (Direct Sales, Indirect Sales), By Industry (Process {Oil & Gas, Chemicals, Pharmaceuticals, Mining & Metals, Food & Beverages, Energy & Power, Others}, Discrete {Automotive, Semiconductor & Electronics, Aerospace & Defense, Medical Devices, Machine Manufacturing, Others}), and Regional Forecasts 2021-2027

Product link: <https://marketpublishers.com/r/GDD32B77B251EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GDD32B77B251EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms

& Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970