

Programmable Logic Controls (PLC) - Global Market Outlook (2017-2026)

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Abstracts

According to Statistics MRC, the Global Programmable Logic Controls (PLC) Markets accounted for \$11,780.7 million in 2017 and is expected to reach \$17,350.0 million by 2026 growing at a CAGR of 4.4% during the forecast period. High investments into computer and software and amplified deployment of robots across various industries are the key driving factors for the market growth. However, fixed circuit operation and Number of optional modules added to maximize flexibility and performance cost are some of the factors hindering the market growth.

A programmable logic controller (PLC) or programmable controller is an industrial digital computer which has been ruggedized and adapted for the control of manufacturing processes, such as assembly lines, or robotic devices, or any activity that requires high-reliability control and ease of programming and process fault diagnosis. PLCs can range from small modular devices with tens of inputs and outputs (I/O), in a housing integral with the processor, to large rack-mounted modular devices with a count of thousands of I/O, and which are often networked to other PLC and SCADA systems. They can be designed for multiple arrangements of digital and analog I/O, extended temperature ranges, immunity to electrical noise, and resistance to vibration and impact. Programs to control machine operation are typically stored in battery-backed-up or non-volatile memory.

Based on Type, the Nano Programmable Logic Controllers (PLC) segment accounted for considerable market share during the forecast period. A nano programmable logic controller (PLC) can be defined as an industrial grade device which is used to perform control functions with superior performance and reliability such as control, monitor, and manage production process, building systems, and power. This type of controllers can remove the traditional hardwiring involved in relay control circuits resulting in improved

productivity. These controllers perform functions such as monitoring devices, data gathering, supervisory control, and other process parameters of programs by communicating with other controllers or computer equipment. It is easier to create and change a program in a nano PLC than to rewire the complete circuit. These controllers are designed to be robust, capable of withstanding extreme humidity, temperatures, vibration, and electrical noise.

By geography, Asia Pacific is expected to be the largest region in the Programmable logic controls (PLC) market during the forecast period. The home automation market in the Asia Pacific region is increasing owing to the rising security and convenience concern among the end users. As a result, manufacturers are becoming more focused on expanding their product portfolio to address the growing demand from the emerging market.

Some of the key players profiled in the programmable logic market (PLC) market include ABB Ltd, Allen Bradley, Emerson Electric Co, General Electric Co, Hitachi Industrial Equipment Systems Co Ltd, Honeywell International Inc, Market positioning of vendors, Mitsubishi Electric Corporation, Omron Corporation, Panasonic Corporation, Robert Bosch GmbH, Rockwell Automation Inc, Schneider Electric SE, Siemens AG and Vendor classification.

Types Covered:

Integrated or Compact Programmable Logic Controllers (PLC)

Large Programmable Logic Controllers (PLC)

Medium Programmable Logic Controllers (PLC)

Modular PLC

Nano Programmable Logic Controllers (PLC)

Programmable Automation Controllers (PACs)

Small Programmable Logic Controllers (PLC)

Software

Services

Solutions Covered:

Consulting

Hardware

Input/Output (I/O)

Maintenance

Power Supply

Processor

Training

Products Covered:

Modular Programmable Logic Controllers (PLC)

Rackmount Programmable Logic Controllers (PLC)

Unitary Programmable Logic Controllers (PLC)

End Users Covered:

Aerospace & Defense

Automotive

Building automation

Chemical and Petrochemical

Discrete industry

Food and Beverage

Oil & Gas

Paper & Pulp

Pharmaceutical

Power

Process industry

Water and Wastewater Treatment

Steel Industry

Other End-user Industries

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country level segments

Strategic recommendations for the new entrants

Market forecasts for a minimum of 9 years of all the mentioned segments, sub segments and the regional markets

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic analysis: Drivers and Constraints, Product/Technology Analysis, Porter's five forces analysis, SWOT analysis etc.

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the clients interest (Note: Depends of feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

2 PREFACE

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
 - 2.4.1 Data Mining
 - 2.4.2 Data Analysis
 - 2.4.3 Data Validation
 - 2.4.4 Research Approach
- 2.5 Research Sources
 - 2.5.1 Primary Research Sources
 - 2.5.2 Secondary Research Sources
 - 2.5.3 Assumptions

3 MARKET TREND ANALYSIS

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Product Analysis
- 3.7 End User Analysis
- 3.8 Emerging Markets
- 3.9 Futuristic Market Scenario

4 PORTERS FIVE FORCE ANALYSIS

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

5 GLOBAL PROGRAMMABLE LOGIC CONTROLLERS (PLC) MARKET, BY TYPE

- 5.1 Introduction
- 5.2 Integrated or Compact Programmable Logic Controllers (PLC)
- 5.3 Large Programmable Logic Controllers (PLC)
- 5.4 Medium Programmable Logic Controllers (PLC)
- 5.5 Modular PLC
- 5.6 Nano Programmable Logic Controllers (PLC)
- 5.7 Programmable Automation Controllers (PACs)
- 5.8 Small Programmable Logic Controllers (PLC)
- 5.9 Software
- 5.10 Services

6 GLOBAL PROGRAMMABLE LOGIC CONTROLLERS (PLC) MARKET, BY SOLUTION

- 6.1 Introduction
- 6.2 Consulting
- 6.3 Hardware
- 6.4 Input/Output (I/O)
- 6.5 Maintenance
- 6.6 Power Supply
- 6.7 Processor
- 6.8 Training

7 GLOBAL PROGRAMMABLE LOGIC CONTROLLERS (PLC) MARKET, BY PRODUCT

- 7.1 Introduction
- 7.2 Modular Programmable Logic Controllers (PLC)
- 7.3 Rackmount Programmable Logic Controllers (PLC)
- 7.4 Unitary Programmable Logic Controllers (PLC)

8 GLOBAL PROGRAMMABLE LOGIC CONTROLLERS (PLC) MARKET, BY END USER

- 8.1 Introduction
- 8.2 Aerospace & Defense
- 8.3 Automotive

- 8.4 Building automation
- 8.5 Chemical and Petrochemical
- 8.6 Discrete industry
- 8.7 Food and Beverage
- 8.8 Oil & Gas
- 8.9 Paper & Pulp
- 8.10 Pharmaceutical
- 8.11 Power
- 8.12 Process industry
- 8.13 Water and Wastewater Treatment
- 8.14 Steel Industry
- 8.15 Other End-user Industries

9 GLOBAL PROGRAMMABLE LOGIC CONTROLLERS (PLC) MARKET, BY GEOGRAPHY

- 9.1 Introduction
- 9.2 North America
 - 9.2.1 US
 - 9.2.2 Canada
 - 9.2.3 Mexico
- 9.3 Europe
 - 9.3.1 Germany
 - 9.3.2 UK
 - 9.3.3 Italy
 - 9.3.4 France
 - 9.3.5 Spain
 - 9.3.6 Rest of Europe
- 9.4 Asia Pacific
 - 9.4.1 Japan
 - 9.4.2 China
 - 9.4.3 India
 - 9.4.4 Australia
 - 9.4.5 New Zealand
 - 9.4.6 South Korea
 - 9.4.7 Rest of Asia Pacific
- 9.5 South America
 - 9.5.1 Argentina
 - 9.5.2 Brazil

- 9.5.3 Chile
- 9.5.4 Rest of South America
- 9.6 Middle East & Africa
 - 9.6.1 Saudi Arabia
 - 9.6.2 UAE
 - 9.6.3 Qatar
 - 9.6.4 South Africa
 - 9.6.5 Rest of Middle East & Africa

10 KEY DEVELOPMENTS

- 10.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 10.2 Acquisitions & Mergers
- 10.3 New Product Launch
- 10.4 Expansions
- 10.5 Other Key Strategies

11 COMPANY PROFILING

- 11.1 ABB Ltd
- 11.2 Allen Bradley
- 11.3 Emerson Electric Co
- 11.4 General Electric Co
- 11.5 Hitachi Industrial Equipment Systems Co Ltd
- 11.6 Honeywell International Inc
- 11.7 Market positioning of vendors
- 11.8 Mitsubishi Electric Corporation
- 11.9 Omron Corporation
- 11.10 Panasonic Corporation
- 11.11 Robert Bosch GmbH
- 11.12 Rockwell Automation Inc
- 11.13 Schneider Electric SE
- 11.14 Siemens AG
- 11.15 Vendor classification

List Of Tables

LIST OF TABLES

Table 1 Global Programmable Logic Controllers (PLC) Market Outlook, By Region (2016-2026) (US \$MN)

Table 2 Global Programmable Logic Controllers (PLC) Market Outlook, By Type (2016-2026) (US \$MN)

Table 3 Global Programmable Logic Controllers (PLC) Market Outlook, By Integrated or Compact Programmable Logic Controllers (PLC) (2016-2026) (US \$MN)

Table 4 Global Programmable Logic Controllers (PLC) Market Outlook, By Large Programmable Logic Controllers (PLC) (2016-2026) (US \$MN)

Table 5 Global Programmable Logic Controllers (PLC) Market Outlook, By Medium Programmable Logic Controllers (PLC) (2016-2026) (US \$MN)

Table 6 Global Programmable Logic Controllers (PLC) Market Outlook, By Modular PLC (2016-2026) (US \$MN)

Table 7 Global Programmable Logic Controllers (PLC) Market Outlook, By Nano Programmable Logic Controllers (PLC) (2016-2026) (US \$MN)

Table 8 Global Programmable Logic Controllers (PLC) Market Outlook, By Programmable Automation Controllers (PACs) (2016-2026) (US \$MN)

Table 9 Global Programmable Logic Controllers (PLC) Market Outlook, By Small Programmable Logic Controllers (PLC) (2016-2026) (US \$MN)

Table 10 Global Programmable Logic Controllers (PLC) Market Outlook, By Software (2016-2026) (US \$MN)

Table 11 Global Programmable Logic Controllers (PLC) Market Outlook, By Services (2016-2026) (US \$MN)

Table 12 Global Programmable Logic Controllers (PLC) Market Outlook, By Solution (2016-2026) (US \$MN)

Table 13 Global Programmable Logic Controllers (PLC) Market Outlook, By Consulting (2016-2026) (US \$MN)

Table 14 Global Programmable Logic Controllers (PLC) Market Outlook, By Hardware (2016-2026) (US \$MN)

Table 15 Global Programmable Logic Controllers (PLC) Market Outlook, By Input/Output (I/O) (2016-2026) (US \$MN)

Table 16 Global Programmable Logic Controllers (PLC) Market Outlook, By Maintenance (2016-2026) (US \$MN)

Table 17 Global Programmable Logic Controllers (PLC) Market Outlook, By Power Supply (2016-2026) (US \$MN)

Table 18 Global Programmable Logic Controllers (PLC) Market Outlook, By Processor

(2016-2026) (US \$MN)

Table 19 Global Programmable Logic Controllers (PLC) Market Outlook, By Training (2016-2026) (US \$MN)

Table 20 Global Programmable Logic Controllers (PLC) Market Outlook, By Product (2016-2026) (US \$MN)

Table 21 Global Programmable Logic Controllers (PLC) Market Outlook, By Modular Programmable Logic Controllers (PLC) (2016-2026) (US \$MN)

Table 22 Global Programmable Logic Controllers (PLC) Market Outlook, By Rackmount Programmable Logic Controllers (PLC) (2016-2026) (US \$MN)

Table 23 Global Programmable Logic Controllers (PLC) Market Outlook, By Unitary Programmable Logic Controllers (PLC) (2016-2026) (US \$MN)

Table 24 Global Programmable Logic Controllers (PLC) Market Outlook, By End User (2016-2026) (US \$MN)

Table 25 Global Programmable Logic Controllers (PLC) Market Outlook, By Aerospace & Defense (2016-2026) (US \$MN)

Table 26 Global Programmable Logic Controllers (PLC) Market Outlook, By Automotive (2016-2026) (US \$MN)

Table 27 Global Programmable Logic Controllers (PLC) Market Outlook, By Building automation (2016-2026) (US \$MN)

Table 28 Global Programmable Logic Controllers (PLC) Market Outlook, By Chemical and Petrochemical (2016-2026) (US \$MN)

Table 29 Global Programmable Logic Controllers (PLC) Market Outlook, By Discrete industry (2016-2026) (US \$MN)

Table 30 Global Programmable Logic Controllers (PLC) Market Outlook, By Food and Beverage (2016-2026) (US \$MN)

Table 31 Global Programmable Logic Controllers (PLC) Market Outlook, By Oil & Gas (2016-2026) (US \$MN)

Table 32 Global Programmable Logic Controllers (PLC) Market Outlook, By Paper & Pulp (2016-2026) (US \$MN)

Table 33 Global Programmable Logic Controllers (PLC) Market Outlook, By Pharmaceutical (2016-2026) (US \$MN)

Table 34 Global Programmable Logic Controllers (PLC) Market Outlook, By Power (2016-2026) (US \$MN)

Table 35 Global Programmable Logic Controllers (PLC) Market Outlook, By Process industry (2016-2026) (US \$MN)

Table 36 Global Programmable Logic Controllers (PLC) Market Outlook, By Water and Wastewater Treatment (2016-2026) (US \$MN)

Table 37 Global Programmable Logic Controllers (PLC) Market Outlook, By Steel Industry (2016-2026) (US \$MN)

Table 38 Global Programmable Logic Controllers (PLC) Market Outlook, By Other End-user Industries (2016-2026) (US \$MN)

NOTE: Tables for North America, Europe, Asia Pacific, South America, and Middle East & Africa are represented in the same manner above.

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