+357 96 030922
info@marketpublishers.com

Global Programmable ICs Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/GA5F3AF6A169EN.html
Date: January 2026
Pages: 128
Price: US$ 4,480.00 (Single User License)
ID: GA5F3AF6A169EN

Abstracts

The global Programmable ICs market size is expected to reach $ 17780 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).
Programmable integrated circuits (ICs) are application-specific integrated circuits (ASICs) whose internal circuit connections and logic functions can be flexibly modified through software configuration or hardware programming. Their core characteristic is that they abandon the traditional fixed-function IC hardware logic fixation model, allowing users to customize circuit functions according to requirements after production without redesigning and manufacturing the chip layout. These chips are built upon programmable logic units, memory units, and interconnect resources, combining the high-speed computing capabilities of hardware with the flexible configuration advantages of software. They are widely used in customized electronic system development, rapid prototyping, and dynamic function reconfiguration scenarios, and are core components for realizing 'hardware-to-software' transformation in electronic system design.
Global production of programmable ICs is projected to reach 400 million units by 2025, with an average price of $32 per unit.
Upstream of programmable ICs mainly includes wafer fabrication capacity across advanced and mature nodes, EDA software, IP cores, and packaging and testing materials. Downstream demand is the focus, spanning communications and data centers for network acceleration and protocol processing, industrial automation and motion control, automotive electronics for domain control and ADAS prototyping, consumer electronics with rapid feature iteration, aerospace and defense with long lifecycle reliability needs, and AI inference acceleration and edge computing. End users prioritize reconfigurability, parallel performance, power latency balance, maturity of software toolchains, long-term supply, and ecosystem support.
Industry development features parallel progress in high performance and low power,

+357 96 030922
info@marketpublishers.com

stronger on-chip heterogeneous integration, improved hardware software co-design, and more application-oriented programmable architectures for AI and high-speed interfaces. Key drivers include surging compute demand, shorter product cycles, rising customization requirements, and risk reduction through programmability under uncertain demand. Constraints mainly involve high development barriers and learning costs, higher unit cost versus ASICs, power disadvantages in some scenarios, and delivery uncertainty tied to advanced node supply.

Gross margins are generally high. Mainstream programmable logic devices typically achieve margins of 60%?70%, while high-end platforms with strong ecosystems can reach 70%?80%. Software tools, IP, and platform services that generate recurring revenue are critical to sustaining these margins.

This report studies the global Programmable ICs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Programmable ICs and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Programmable ICs that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Programmable ICs total production and demand, 2021-2032, (Million Units)

Global Programmable ICs total production value, 2021-2032, (USD Million)

Global Programmable ICs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Programmable ICs consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Programmable ICs domestic production, consumption, key domestic manufacturers and share

Global Programmable ICs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Programmable ICs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Programmable ICs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Programmable ICs market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include AMD, Intel (Altera), Lattice Semiconductor, Microchip Technology, Achronix Semiconductor, Efinix, GOWIN Semiconductor, QuickLogic, NanoXplore, Anlogic Infotech, etc.

+357 96 030922
info@marketpublishers.com

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.
Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Programmable ICs market
Detailed Segmentation:
Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Million Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.
Global Programmable ICs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Programmable ICs Market, Segmentation by Type:

PLD

FPGA

SoC FPGA/Programmable SoC

MCU

+357 96 030922
info@marketpublishers.com

Global Programmable ICs Market, Segmentation by Programming Method:

One-Time Programming

Repeated Programmable

Global Programmable ICs Market, Segmentation by Number of Logic Gates:

Less than 10,000

10,000-1 million

More than 1 million

Global Programmable ICs Market, Segmentation by Application:

Industrial Automation

Communications & Networks

Artificial Intelligence & Edge Computing

Automotive Electronics

Consumer Electronics

Military & Aerospace

Companies Profiled:

AMD

Intel (Altera)

Lattice Semiconductor

+357 96 030922
info@marketpublishers.com

Microchip Technology

Achronix Semiconductor

Efinix

GOWIN Semiconductor

QuickLogic

NanoXplore

Anlogic Infotech

Pango Microsystems

Key Questions Answered:

1. How big is the global Programmable ICs market?
2. What is the demand of the global Programmable ICs market?
3. What is the year over year growth of the global Programmable ICs market?
4. What is the production and production value of the global Programmable ICs market?
5. Who are the key producers in the global Programmable ICs market?
6. What are the growth factors driving the market demand?

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

5 MARKET ANALYSIS BY TYPE

6 MARKET ANALYSIS BY PROGRAMMING METHOD

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Programmable ICs Supply, Demand and Key Producers, 2026-2032

Product link: https://marketpublishers.com/r/GA5F3AF6A169EN.html

Price: US$ 4,480.00 (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/GA5F3AF6A169EN.html