

Embedded FPGA Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/E5A7DD98AAC7EN.html>

Date: October 2023

Pages: 140

Price: US\$ 2,499.00 (Single User License)

ID: E5A7DD98AAC7EN

Abstracts

Market Overview:

The global embedded FPGA market size reached US\$ 7.1 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 19.5 Billion by 2028, exhibiting a growth rate (CAGR) of 16.7% during 2023-2028.

Embedded field-programmable grid array (FPGA) is an intellectual property (IP) core integrated into a system on chips (SoC) or application-specific integrated circuits (ASIC) to allow post-production customization and updates. Some commonly used non-volatile and programmable technologies in embedded FPGA include electronically erasable programmable read-only memory (EERAM), anti-fuse, flash, and static random-access memory (SRAM). Embedded FPGA is widely used in hardware acceleration for machine learning (ML), defense equipment, wireless body sensor network, biomedical engineering, diagnostic imaging, electromedical segments, and genomics. As compared to traditional FPGAs, embedded FPGA is more cost-effective, energy-efficient, reliable, and offers better performance. As a result, it finds extensive applications across the consumer electronics, defense, aerospace, automotive, and telecommunication industries.

Embedded FPGA Market Trends:

The global embedded FPGA market is primarily being driven by the increasing adoption of wireless connectivity across establishments. Embedded FPGA is widely used for flexibility and real-time update of protocols and algorithms in long-term-evolution (LTE), third-generation (3G), fourth-generation (4G), and fifth-generation (5G) communication

technologies. Furthermore, the increasing solution employment in data processing applications to provide fast execution and solve parallel, high throughput problems related to image and signal processing is providing a considerable boost to market growth. Additionally, the widespread product adoption to develop next-generation artificial intelligence (AI) accelerators with low data latency, high compatibility, and reduced costs is providing an impetus to the market growth. Moreover, the increasing utilization of the internet of things (IoT)-enabled devices to provide enhanced security and allow user-defined customization is creating a positive outlook for the market. Other factors, including the rising need to enhance the safety and operational range of military communication systems and increasing product demand from the industrial sector for regulating voltage, current, and motor speed, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global embedded FPGA market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on technology and application.

Breakup by Technology:

EEPROM

Antifuse

SRAM

Flash

Others

Breakup by Application:

Data Processing

Consumer Electronics

Industrial

Military and Aerospace

Automotive

Telecom

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Achronix Semiconductor Corporation, Adicsys, Advanced Micro Devices Inc, Efinix Inc, Flex Logix Technologies Inc., Intel Corporation, Lattice Semiconductor Corporation, Menta S.A.S, Microchip Technology Inc and Quick Logic Corporation.

Key Questions Answered in This Report:

How has the global embedded FPGA market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global embedded FPGA market?

What are the key regional markets?

What is the breakup of the market based on the technology?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global embedded FPGA market and who are the key players?

What is the degree of competition in the industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL EMBEDDED FPGA MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY TECHNOLOGY

- 6.1 EEPROM
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Antifuse
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 SRAM

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Flash
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast
- 6.5 Others
 - 6.5.1 Market Trends
 - 6.5.2 Market Forecast

7 MARKET BREAKUP BY APPLICATION

- 7.1 Data Processing
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Consumer Electronics
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Industrial
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Military and Aerospace
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
- 7.5 Automotive
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast
- 7.6 Telecom
 - 7.6.1 Market Trends
 - 7.6.2 Market Forecast
- 7.7 Others
 - 7.7.1 Market Trends
 - 7.7.2 Market Forecast

8 MARKET BREAKUP BY REGION

- 8.1 North America
 - 8.1.1 United States
 - 8.1.1.1 Market Trends
 - 8.1.1.2 Market Forecast

8.1.2 Canada

8.1.2.1 Market Trends

8.1.2.2 Market Forecast

8.2 Asia-Pacific

8.2.1 China

8.2.1.1 Market Trends

8.2.1.2 Market Forecast

8.2.2 Japan

8.2.2.1 Market Trends

8.2.2.2 Market Forecast

8.2.3 India

8.2.3.1 Market Trends

8.2.3.2 Market Forecast

8.2.4 South Korea

8.2.4.1 Market Trends

8.2.4.2 Market Forecast

8.2.5 Australia

8.2.5.1 Market Trends

8.2.5.2 Market Forecast

8.2.6 Indonesia

8.2.6.1 Market Trends

8.2.6.2 Market Forecast

8.2.7 Others

8.2.7.1 Market Trends

8.2.7.2 Market Forecast

8.3 Europe

8.3.1 Germany

8.3.1.1 Market Trends

8.3.1.2 Market Forecast

8.3.2 France

8.3.2.1 Market Trends

8.3.2.2 Market Forecast

8.3.3 United Kingdom

8.3.3.1 Market Trends

8.3.3.2 Market Forecast

8.3.4 Italy

8.3.4.1 Market Trends

8.3.4.2 Market Forecast

8.3.5 Spain

- 8.3.5.1 Market Trends
- 8.3.5.2 Market Forecast
- 8.3.6 Russia
 - 8.3.6.1 Market Trends
 - 8.3.6.2 Market Forecast
- 8.3.7 Others
 - 8.3.7.1 Market Trends
 - 8.3.7.2 Market Forecast
- 8.4 Latin America
 - 8.4.1 Brazil
 - 8.4.1.1 Market Trends
 - 8.4.1.2 Market Forecast
 - 8.4.2 Mexico
 - 8.4.2.1 Market Trends
 - 8.4.2.2 Market Forecast
 - 8.4.3 Others
 - 8.4.3.1 Market Trends
 - 8.4.3.2 Market Forecast
- 8.5 Middle East and Africa
 - 8.5.1 Market Trends
 - 8.5.2 Market Breakup by Country
 - 8.5.3 Market Forecast

9 SWOT ANALYSIS

- 9.1 Overview
- 9.2 Strengths
- 9.3 Weaknesses
- 9.4 Opportunities
- 9.5 Threats

10 VALUE CHAIN ANALYSIS

11 PORTERS FIVE FORCES ANALYSIS

- 11.1 Overview
- 11.2 Bargaining Power of Buyers
- 11.3 Bargaining Power of Suppliers
- 11.4 Degree of Competition

11.5 Threat of New Entrants

11.6 Threat of Substitutes

12 PRICE ANALYSIS

13 COMPETITIVE LANDSCAPE

13.1 Market Structure

13.2 Key Players

13.3 Profiles of Key Players

13.3.1 Achronix Semiconductor Corporation

13.3.1.1 Company Overview

13.3.1.2 Product Portfolio

13.3.2 Adicsys

13.3.2.1 Company Overview

13.3.2.2 Product Portfolio

13.3.3 Advanced Micro Devices Inc

13.3.3.1 Company Overview

13.3.3.2 Product Portfolio

13.3.3.3 Financials

13.3.3.4 SWOT Analysis

13.3.4 Efinix Inc

13.3.4.1 Company Overview

13.3.4.2 Product Portfolio

13.3.5 Flex Logix Technologies Inc.

13.3.5.1 Company Overview

13.3.5.2 Product Portfolio

13.3.6 Intel Corporation

13.3.6.1 Company Overview

13.3.6.2 Product Portfolio

13.3.6.3 Financials

13.3.6.4 SWOT Analysis

13.3.7 Lattice Semiconductor Corporation

13.3.7.1 Company Overview

13.3.7.2 Product Portfolio

13.3.7.3 Financials

13.3.7.4 SWOT Analysis

13.3.8 Menta S.A.S

13.3.8.1 Company Overview

- 13.3.8.2 Product Portfolio
- 13.3.9 Microchip Technology Inc
 - 13.3.9.1 Company Overview
 - 13.3.9.2 Product Portfolio
 - 13.3.9.3 Financials
 - 13.3.9.4 SWOT Analysis
- 13.3.10 Quick Logic Corporation
 - 13.3.10.1 Company Overview
 - 13.3.10.2 Product Portfolio
 - 13.3.10.3 Financials
 - 13.3.10.4 SWOT Analysis

List Of Tables

LIST OF TABLES

Table 1: Global: Embedded FPGA Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Embedded FPGA Market Forecast: Breakup by Technology (in Million US\$), 2023-2028

Table 3: Global: Embedded FPGA Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 4: Global: Embedded FPGA Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 5: Global: Embedded FPGA Market: Competitive Structure

Table 6: Global: Embedded FPGA Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Embedded FPGA Market: Major Drivers and Challenges

Figure 2: Global: Embedded FPGA Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Embedded FPGA Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 4: Global: Embedded FPGA Market: Breakup by Technology (in %), 2022

Figure 5: Global: Embedded FPGA Market: Breakup by Application (in %), 2022

Figure 6: Global: Embedded FPGA Market: Breakup by Region (in %), 2022

Figure 7: Global: Embedded FPGA (EEPROM) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 8: Global: Embedded FPGA (EEPROM) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 9: Global: Embedded FPGA (Antifuse) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 10: Global: Embedded FPGA (Antifuse) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 11: Global: Embedded FPGA (SRAM) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 12: Global: Embedded FPGA (SRAM) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 13: Global: Embedded FPGA (Flash) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 14: Global: Embedded FPGA (Flash) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 15: Global: Embedded FPGA (Other Technologies) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 16: Global: Embedded FPGA (Other Technologies) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 17: Global: Embedded FPGA (Data Processing) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 18: Global: Embedded FPGA (Data Processing) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 19: Global: Embedded FPGA (Consumer Electronics) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 20: Global: Embedded FPGA (Consumer Electronics) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 21: Global: Embedded FPGA (Industrial) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: Global: Embedded FPGA (Industrial) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: Global: Embedded FPGA (Military and Aerospace) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: Global: Embedded FPGA (Military and Aerospace) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: Global: Embedded FPGA (Automotive) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: Global: Embedded FPGA (Automotive) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Global: Embedded FPGA (Telecom) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Global: Embedded FPGA (Telecom) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: Global: Embedded FPGA (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Global: Embedded FPGA (Other Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: North America: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: North America: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: United States: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: United States: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: Canada: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: Canada: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: Asia-Pacific: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: Asia-Pacific: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: China: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: China: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 41: Japan: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 42: Japan: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: India: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: India: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 45: South Korea: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: South Korea: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: Australia: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 48: Australia: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: Indonesia: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 50: Indonesia: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: Others: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 52: Others: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 53: Europe: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 54: Europe: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 55: Germany: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 56: Germany: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 57: France: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 58: France: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 59: United Kingdom: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 60: United Kingdom: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 61: Italy: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 62: Italy: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 63: Spain: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 64: Spain: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 65: Russia: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 66: Russia: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 67: Others: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 68: Others: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 69: Latin America: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 70: Latin America: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 71: Brazil: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 72: Brazil: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 73: Mexico: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 74: Mexico: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 75: Others: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 76: Others: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 77: Middle East and Africa: Embedded FPGA Market: Sales Value (in Million US\$), 2017 & 2022

Figure 78: Middle East and Africa: Embedded FPGA Market: Breakup by Country (in %), 2022

Figure 79: Middle East and Africa: Embedded FPGA Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 80: Global: Embedded FPGA Industry: SWOT Analysis

Figure 81: Global: Embedded FPGA Industry: Value Chain Analysis

Figure 82: Global: Embedded FPGA Industry: Porter's Five Forces Analysis

I would like to order

Product name: Embedded FPGA Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Product link: <https://marketpublishers.com/r/E5A7DD98AAC7EN.html>

Price: US\$ 2,499.00 (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/E5A7DD98AAC7EN.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

