FPGA Market by Type (High-End, Mid-End, Low-End), Verticals (Telecommunication, Industrial, A&D, Automotive, & Others), Architecture (Sram, Flash, & Antifuse), Technology Node (28nm-10nm, 45/40nm, & Others), and Geography - Forecast to 2022

Description: “The field programmable gate array (FPGA) market poised to grow at a CAGR of 7.41% during the forecast period”

The field programmable gate array (FPGA) market is expected to grow at a CAGR of 7.41% between 2016 and 2022 and reach USD 7.23 billion by 2022. A key influencing factor for the growth of FPGAs is their fast time-to-market (TTM). FPGAs offer fastest TTM, compared to their counterparts–ASICs and ASSPs–as they reach the production stage within three to five months, whereas ASSP/ASIC take around 12-18 months for the same. Besides, several other factors such as low NRE design cost, growing demand for advanced driver assistance systems (ADAS), reprogramming ability, and the need of wireless communication and optical transport network (OTN) are expected to drive the FPGA market.

“The FPGA market for the automotive vertical is projected to grow rapidly in the near future”

The FPGA market in the automotive sector is expected to grow at the highest CAGR during the forecast period. The demand for applications such as (ADAS), e-vehicles, and powertrains are expected to present huge opportunities for FPGAs in this sector.

“APAC expected to be the fastest-growing market for FPGA”

The market in APAC is expected to grow at the highest CAGR between 2015 and 2020. With the advent of IoT and M2M, the growth in automotive and consumer electronics industry is expected to be very high because of a very large number of mobile phone users in emerging countries such as China and India.

Break-up of profiles of primary participants for the report is given below:
? By Company Type: Tier 1 – 16%, Tier 2 – 29%, and Tier 3 – 55%
? By Designation: C-level –25%, Director level – 33%, VP level – 42%
? By Region: North America - 51%, Europe – 32%, APAC – 12%, RoW – 5%

The key players in the market include Xilinx Inc. (U.S.), Altera Corporation (U.S.), Microsemi Corporation (U.S.), Lattice Semiconductor (U.S.), Achronix Semiconductor Corporation (U.S.), Atmel Corporation (U.S.), and S2C Inc. (U.S.) among others.

Reasons to buy the report:
- This report includes the market statistics pertaining to type, architecture, vertical, technology node, and region.
- The Porter's five forces framework has been utilized along with the value chain analysis to provide an in-depth insight into the FPGA market.
- Major drivers, restraints, opportunities, and challenges for the FPGA market have been detailed in this report.
- Illustrative segmentation, analysis, and forecast have been conducted for the market based on types, architectures, verticals, technology nodes, and geography to give an overall view of the FPGA market.
- The detailed competitive landscape includes key players, in-depth analysis, and revenue of key players.

Contents:
1 Introduction
  1.1 Objectives of the Study
  1.2 Market Definition
  1.3 Market Scope
    1.3.1 Markets Covered
    1.3.2 Years Considered in the Study
  1.4 Currency
  1.5 Stakeholders
  1.6 Limitations

2 Research Methodology
2.1 Research Data
   2.1.1 Secondary Data
     2.1.1.1 Key Data From Secondary Sources
   2.1.2 Primary Data
     2.1.2.1 Key Data From Primary Sources
     2.1.2.2 Key Industry Insights
     2.1.2.3 Breakdown of Primaries

2.2 Market Size Estimation
   2.2.1 Bottom-Up Approach
   2.2.2 Top-Down Approach

2.3 Market Breakdown and Data Triangulation

2.4 Research Assumptions and Limitations
   2.4.1 Assumptions

3 Executive Summary

4 Premium Insights
   4.1 Attractive Opportunities in the Global FPGA Market
   4.2 APAC FPGA Market, By Vertical and Country
   4.3 FPGA Market, By Architecture
   4.4 FPGA Market, By Technology Node
   4.5 FPGA Market, By Vertical
   4.6 FPGA Market, By Geography

5 Market Overview
   5.1 Market Segmentation
     5.1.1 Market, By Type
     5.1.2 Market, By Architecture
     5.1.3 Market, By Vertical
     5.1.4 Market, By Geography
     5.1.5 Market By Technology Node
   5.2 Market Dynamics
     5.2.1 Drivers
       5.2.1.1 Fast Time-To-Market
       5.2.1.2 Low Nre Cost Per Design
       5.2.1.3 Growing Demand for Advanced Driver Assistance Systems (ADAS)
     5.2.2 Restraints
       5.2.2.1 Inability of FPGAs to Substitute Asic Devices
       5.2.2.2 Only Two Startups in the Last Two Decades
     5.2.3 Opportunities
       5.2.3.1 End Market Dynamics Create Opportunities in New and Traditional Applications
       5.2.3.2 Need of Wireless Communication and OTN
     5.2.4 Challenges
       5.2.4.1 Lack of Standardized Verification Techniques
       5.2.4.2 Launch of New Technologies in 3d

6 Industry Trends
   6.1 Value Chain Analysis
   6.2 Industry Trends
   6.3 Porter’s Five Forces Analysis
     6.3.1 Bargaining Power of Suppliers
     6.3.2 Bargaining Power of Buyers
     6.3.3 Threat of Substitutes
     6.3.4 Threat of New Entrants
     6.3.5 Degree of Competition
   6.4 FPGA Ecosystem

7 Market, By Type
   7.1 Introduction
   7.2 High-End FPGA
   7.3 Mid-End FPGA
   7.4 Low-End FPGA
8 Market, By Technology Node
  8.1 Introduction
  8.2 130nm
  8.3 90nm
  8.4 65nm
  8.5 45/40nm
  8.6 28nm-10nm

9 Market, By Architecture
  9.1 Introduction
  9.2 SRAM-Based FPGA
  9.3 Anti-Fuse Based FPGA
  9.4 Flash-Based FPGA

10 FPGA Market, By Vertical
  10.1 Introduction
  10.2 Telecommunication
    10.2.1 Wired Communication
      10.2.1.1 Optical Transport Network (OTN)
      10.2.1.2 Backhaul and Access Network
      10.2.1.3 Network Processing
      10.2.1.4 Wired Connectivity
      10.2.1.5 Packet-Based Processing and Switching
    10.2.2 Wireless Communication
      10.2.2.1 Baseband
      10.2.2.2 Wireless Backhaul Network
      10.2.2.3 Radio
  10.3 Consumer Electronics
    10.3.1 Mobile Devices
      10.3.1.1 Smartphones
      10.3.1.2 Tablets
    10.3.2 Entertainment Devices
      10.3.2.1 Portable Audio Video Players
      10.3.2.2 Gaming Consoles
      10.3.2.3 Digital Tvs
      10.3.2.4 Digital Cameras
    10.3.3 Others
      10.3.3.1 Printer
      10.3.3.2 Home Automation and Networking
      10.3.3.3 Set-Top Box (STB)
      10.3.3.4 Video Projector
  10.4 Automotive
    10.4.1 Advance Driver Assistance Systems (ADAS)
    10.4.2 Automotive Infotainment & Driver Information System
    10.4.3 E-Vehicles and Power Trains
    10.4.4 Others
  10.5 Industrial
    10.5.1 Industrial Imaging
      10.5.1.1 Video Surveillance
      10.5.1.2 Machine Vision
    10.5.2 Industrial Networking
    10.5.3 Industrial Motor Control
  10.6 Aerospace & Defense
    10.6.1 Avionics
    10.6.2 Missiles & Munitions
    10.6.3 Radars & Sensors
    10.6.4 Others
  10.7 Medical
    10.7.1 Imaging
      10.7.1.1 Ultrasound
      10.7.1.2 Ct Scanner
      10.7.1.3 Mri
      10.7.1.4 X-Ray
10.7.2 Non-Imaging
   10.7.2.1 Surgical Systems
   10.7.2.2 Patient Monitoring
   10.7.2.3 Others
10.8 Data Center & Computing
   10.8.1 Data Centers
      10.8.1.1 Data Servers
      10.8.1.2 Data Storage
   10.8.2 Computing
      10.8.2.1 Network Appliances
      10.8.2.2 Switching & Routing

11 Market, By Geography
11.1 Introduction
11.2 North America
   11.2.1 U.S.
   11.2.2 Canada
   11.2.3 Mexico
11.3 Europe
   11.3.1 U.K.
   11.3.2 France
   11.3.3 Germany
   11.3.4 Rest of Europe
11.4 Asia-Pacific
   11.4.1 China
   11.4.2 Japan
   11.4.3 Rest of APAC
11.5 RoW
   11.5.1 Middle East
   11.5.2 South America
   11.5.3 Africa

12 Competitive Landscape
12.1 Introduction
12.2 Market Share Analysis, 2014
12.3 Competitive Situation and Trends
   12.3.1 New Product Launches, Developments, and Demonstrations
   12.3.2 Collaborations and Partnerships
   12.3.3 Mergers & Acquisitions
   12.3.4 Others

13 Company Profiles
13.1 Introduction
13.2 Xilinx Inc.
   13.2.1 Business Overview
   13.2.2 Solutions
   13.2.3 Recent Developments
   13.2.4 MnM View
13.3 Microsemi Corporation
   13.3.1 Business Overview
   13.3.2 Products Offered
   13.3.3 Recent Developments
   13.3.4 MnM View
13.4 Lattice Semiconductor
   13.4.1 Business Overview
   13.4.2 Products Offered
   13.4.3 Recent Developments
   13.4.4 MnM View
13.5 Altera Corporation
   13.5.1 Business Overview
   13.5.2 Products Offered
   13.5.3 Recent Developments
   13.5.4 MnM View
13.6 Taiwan Semiconductor Manufacturing Company Ltd. (TSMC)
  13.6.1 Business Overview
  13.6.2 Products & Services
  13.6.3 Recent Developments
  13.6.4 MnM View

13.7 Atmel Corporation
  13.7.1 Business Overview
  13.7.2 Products Offered
  13.7.3 Recent Developments

13.8 Achronix Semiconductor Corp
  13.8.1 Business Overview
  13.8.2 Products Offered
  13.8.3 Recent Developments

13.9 S2C Inc.
  13.9.1 Business Overview
  13.9.2 Products & Services
  13.9.3 Recent Developments

13.10 United Microelectronics Corporation
  13.10.1 Business Overview
  13.10.2 Products Offered
  13.10.3 Recent Developments

13.11 Globalfoundries
  13.11.1 Business Overview
  13.11.2 Products & Services
  13.11.3 Recent Developments

14 Appendix
  14.1 Insights of Industry Experts
  14.2 Discussion Guide
  14.3 Introducing RT: Real-Time Market Intelligence
  14.4 Available Customizations
  14.5 Related Reports

List of Tables

Table 1 Global PLD Market, By Type, 2013 - 2022 (USD Million)
Table 2 Fast Time-To-Market is Propelling the Growth of the FPGA Market
Table 3 The Inability of FPGAs to SubstituteASIC Devices is Restraining the Market Growth
Table 4 End Market Dynamics is Creating New Opportunities for Players in the FPGA Market
Table 5 Challenges for the Growth of the FPGA Market
Table 6 Collaboration is the Leading Trend Among the Key Market Players
Table 7 FPGA Market Size, By Type, 2013 - 2022 (USD Million)
Table 8 High-End: FPGA Market Size, By Technology Node, 2013 - 2022 (USD Million)
Table 9 Mid-End: FPGA Market Size, By Technology Node, 2013 - 2022 (USD Million)
Table 10 Low-End: FPGA Market Size, By Technology Node, 2013 - 2022 (USD Million)
Table 11 FPGA Market Size, By Type, 2013 - 2022 (USD Million)
Table 12 130nm: FPGA Market Size, By Type, 2013 - 2022 (USD Million)
Table 13 90nm: FPGA Market Size, By Type, 2013 - 2022 (USD Million)
Table 14 65nm: FPGA Market Size, By Type, 2013 - 2022 (USD Million)
Table 15 45/40nm: FPGA Market Size, By Type, 2013 - 2022 (USD Million)
Table 16 28nm-10nm: FPGA Market Size, By Type, 2013 - 2022 (USD Million)
Table 17 Comparison of Different FPGA Programming Technologies
Table 18 FPGA Market Size, By Architecture, 2013 - 2022 (USD Million)
Table 19 SRAM: FPGA Market Size, By Vertical, 2013 - 2022 (USD Million)
Table 20 Flash: FPGA Market Size, By Vertical, 2013 - 2022 (USD Million)
Table 21 FPGA Market Size, By Vertical, 2013 - 2022 (USD Million)
Table 22 Telecommunication: FPGA Market Size, By Type, 2013 - 2022 (USD Million)
Table 23 Telecommunication: FPGA Market Size, By Region, 2013 - 2022 (USD Million)
Table 24 Telecommunication: FPGA Market Size, By Architecture, 2013 - 2022 (USD Million)
Table 25 Wired Telecommunication: FPGA Market Size, By Region, 2013 - 2022 (USD Million)
Table 26 Wired Telecommunication: FPGA Market Size, By Application, 2013 - 2022 (USD Million)
Table 27 Wireless Telecommunication: FPGA Market Size, By Application, 2013 - 2022 (USD Million)
Table 28 Wireless Telecommunication: FPGA Market Size, By Region, 2013 - 2022 (USD Million)
Table 29 Consumer Electronics: FPGA Market Size, By Device, 2013 - 2022 (USD Million)
Table 30 Consumer Electronics: FPGA Market Size, By Region, 2013 - 2022 (USD Million)
Table 31 Consumer Electronics: FPGA Market Size, By Architecture, 2013 - 2022 (USD Million)
Table 32 Mobile Devices: FPGA Market Size, By Application, 2013 - 2022 (USD Million)
Table 33 Mobile Devices: FPGA Market Size, By Region, 2013-2022 (USD Million)
Table 34 Entertainment Devices: FPGA Market Size, By Application, 2013 - 2022 (USD Million)
Table 35 Entertainment Devices: FPGA Market Size, By Geography, 2013 - 2022 (USD Million)
Table 36 Others: FPGA Market Size, By Application, 2013 - 2022 (USD Million)
Table 37 Others: FPGA Market Size, By Geography, 2013-2022 (USD Million)
Table 38 Automotive: FPGA Market Size, By Application, 2013 - 2022 (USD Million)
Table 39 Automotive: FPGA Market Size, By Region, 2013 - 2022 (USD Million)
Table 40 Automotive: FPGA Market Size, By Architecture, 2013 - 2022 (USD Million)
Table 41 Industrial Imaging: FPGA Market Size, By Application, 2013 - 2022 (USD Million)
Table 42 Industrial: Market Size, By Application, 2013 - 2022 (USD Million)
Table 43 Industrial: Market Size, By Geography, 2013 - 2022 (USD Million)
Table 44 Industrial: FPGA Market Size, By Architecture, 2013 - 2022 (USD Million)
Table 45 Aerospace & Defense: FPGA Market Size, By Application, 2013 - 2022 (USD Million)
Table 46 Aerospace & Defense: FPGA Market Size, By Region, 2013 - 2022 (USD Million)
Table 47 Aerospace & Defense: FPGA Market Size, By Architecture, 2013 - 2022 (USD Million)
Table 48 Medical: Market Size, By Application, 2013 - 2022 (USD Million)
Table 49 Medical: Market Size, By Region, 2013 - 2022 (USD Million)
Table 50 Medical: Market Size, By Architecture, 2013 - 2022 (USD Million)
Table 51 Imaging: Market Size, By Application, 2013 - 2022 (USD Million)
Table 52 Imaging: FPGA Market Size, By Geography, 2013 - 2022 (USD Million)
Table 53 Non-Imaging: Market Size By Application, 2013-2020 (USD Million)
Table 54 Non-Imaging: Market Size, By Geography, 2013 - 2022 (USD Million)
Table 55 Data Center & Computing: Market Size, By Application, 2013 - 2022 (USD Million)
Table 56 Data Center & Computing: Market Size, By Region, 2013 - 2020 (USD Million)
Table 57 Data Center: Market Size, By Application, 2013 - 2022 (USD Million)
Table 58 Data Center: Market Size, By Geography, 2013 - 2022 (USD Million)
Table 59 Computing: Market Size, By Application, 2013 - 2022 (USD Million)
Table 60 Computing: Market Size, By Geography, 2013 - 2022 (USD Million)
Table 61 Market Size, By Region, 2013 - 2022 (USD Million)
Table 62 North America: Market Size, By Country, 2013 - 2022 (USD Million)
Table 63 North America: Market Size, By Industry, 2013 - 2022 (USD Million)
Table 64 Europe: Market Size, By Country, 2013 - 2022 (USD Million)
Table 65 Europe: Market Size, By Industry, 2013 - 2022 (USD Million)
Table 66 APAC: Market Size, By Country, 2013 - 2022 (USD Million)
Table 67 APAC: Market Size, By Vertical, 2013 - 2022 (USD Million)
Table 68 RoW: Market Size, By Country, 2013 - 2022 (USD Million)
Table 69 RoW: Market Size, By Vertical, 2013 - 2022 (USD Million)
Table 70 New Product Launches, Developments, & Demonstrations in the Field Programmable Gate Array Market, 2015
Table 71 Collaborations and Partnerships in the Market, 2013 - 2015
Table 72 Mergers & Acquisitions, 2015
Table 73 Others, 2015

List of Figures

Figure 1 FPGA Market
Figure 2 FPGA Market: Research Design
Figure 3 Market Size Estimation Methodology: Bottom-Up Approach
Figure 4 Market Size Estimation Methodology: Top-Down Approach
Figure 5 Data Triangulation
Figure 6 Assumptions of the Research Study
Figure 7 Global PLD Market, 2013 - 2022 (USD Billion)
Figure 8 FPGA Market, By Technology Node: Market for 28nm-10nm Expected to Grow at A High Rate, 2015 - 2022
Figure 9 FPGA Market, By Type: High-End Market Expected to Continue to Dominate the Market By 2022
Figure 10 Global FPGA Market, By Vertical: Applications in Automotive and Medical Expected to Exhibit High Growth During the Forecast Period
Figure 11 FPGA Market, By Architecture: SRAM-Based Expected to Lead the Market During the Forecast Period
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit
http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

- **Product Name:** FPGA Market by Type (High-End, Mid-End, Low-End), Verticals (Telecommunication, Industrial, A&D, Automotive, & Others), Architecture (Sram, Flash, & Antifuse), Technology Node (28nm-10nm, 45/40nm, & Others), and Geography - Forecast to 2022

- **Web Address:** http://www.researchandmarkets.com/reports/3620844/
- **Office Code:** SCPLD39H

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User:</td>
<td>USD 5650</td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 5 Users:</td>
<td>USD 6650</td>
</tr>
<tr>
<td>Electronic (PDF) - Site License:</td>
<td>USD 8150</td>
</tr>
<tr>
<td>Electronic (PDF) - Enterprisewide:</td>
<td>USD 10000</td>
</tr>
</tbody>
</table>

Contact Information
Please enter all the information below in **BLOCK CAPITALS**

- **Title:** [ ] Mr [ ] Mrs [ ] Dr [ ] Miss [ ] Ms [ ] Prof
- **First Name:** ____________________________ **Last Name:** ____________________________
- **Email Address:** *
- **Job Title:** ___________________________________________________________________
- **Organisation:** __________________________________________________________________
- **Address:** _____________________________________________________________________
- **City:** ________________________________________________________________________
- **Postal / Zip Code:** __________________________________________________________________
- **Country:** _____________________________________________________________________
- **Phone Number:** ____________________________________________
- **Fax Number:** ____________________________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ________________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World