

# Radiation-Hardened Electronic Market: Trends, Opportunities and Competitive Analysis [2023-2028]

<https://marketpublishers.com/r/RC6DF1D78950EN.html>

Date: August 2023

Pages: 150

Price: US\$ 4,850.00 (Single User License)

ID: RC6DF1D78950EN

## Abstracts

Get it in 2-3 working days by ordering today

### Radiation-Hardened Electronic Market Trends and Forecast

The future of the radiation-hardened electronic market looks promising with opportunities in the space, aerospace & defense, nuclear power plant, and medical applications. The global radiation-hardened electronic market is expected to reach an estimated \$2.0 billion by 2028 with a CAGR of 3.1% from 2023 to 2028. The major drivers for this market are increasing demand of communication satellites for reconnaissance and surveillance operations, rising number of space missions, and considerable use of these technologies for developing power management devices.

### Radiation-Hardened Electronic Market

A more than 150-page report is developed to help in your business decisions. Sample figures with some insights are shown below.

### Radiation-Hardened Electronic Market by Segments

### Radiation-Hardened Electronic Market by Segment

The study includes a forecast for the global radiation-hardened electronic market by product type, component, manufacturing technique, application, and region, as follows:

Radiation-Hardened Electronic Market by Product Type [Shipment Analysis by Value from 2017 to 2028]:

Mixed Signal ICs

Processors & Controllers

Memory

Power Management

Radiation-Hardened Electronic Market by Component [Shipment Analysis by Value from 2017 to 2028]:

Radiation-Hardening by Design (RHBD)

Radiation-Hardening by Process (RHBP)

Radiation-Hardened Electronic Market by Manufacturing Technique [Shipment Analysis by Value from 2017 to 2028]:

Commercial-off-the-Shelf (COTS)

Custom Made

Radiation-Hardened Electronic Market by Application [Shipment Analysis by Value from 2017 to 2028]:

Space

Aerospace & Defense

Nuclear Power Plant

Medical

Others

Radiation-Hardened Electronic Market by Region [Shipment Analysis by Value from 2017 to 2028]:

North America

Europe

Asia Pacific

The Rest of the World

## List of Radiation-Hardened Electronic Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies radiation-hardened electronic companies cater to increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the radiation-hardened electronic companies profiled in this report include:

Microchip Technology

BAE Systems

Renesas Electronics

Infineon Technologies

STMicroelectronics

Xilinx

Texas Instruments

## Radiation-Hardened Electronic Market Insights

Lucintel forecasts that power management will remain the largest segment over the forecast period due to the growing need for these devices in outer spaces, which ensures extreme durability against high-energy charged particles and ionizing radiation.

Space is expected to remain the largest segment due to the rising number of ISR

(intelligence, surveillance, and reconnaissance) projects and space missions and growing number of satellites equipped with radiation-hardened electronic are being launched in the space.

North America will remain the largest region due to the presence of key players, supportive government investment for advanced radiation-hardened electronic for space projects, and increasing number of users for satellite-based telemetry and communication systems in the region.

Features of the Radiation-Hardened Electronic Market

Market Size Estimates: Radiation-hardened electronic market size estimation in terms of value (\$B)

Trend And Forecast Analysis: Market trends (2017-2022) and forecast (2023-2028) by various segments and regions.

Segmentation Analysis: Radiation-hardened electronic market size by various segments, such as by product type, component, manufacturing technique, application, and region

Regional Analysis: Radiation-hardened electronic market breakdown by North America, Europe, Asia Pacific, and the Rest of the World.

Growth Opportunities: Analysis on growth opportunities in different by product type, component, manufacturing technique, application, and regions for the radiation-hardened electronic market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape for the radiation-hardened electronic market.

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

FAQ

Q1. What is the radiation-hardened electronic market size?

Answer: The global radiation-hardened electronic market is expected to reach an estimated \$2.0 billion by 2028.

Q2. What is the growth forecast for radiation-hardened electronic market?

Answer: The global radiation-hardened electronic market is expected to grow with a CAGR of 3.1% from 2023 to 2028.

Q3. What are the major drivers influencing the growth of the radiation-hardened electronic market?

Answer: The major drivers for this market are increasing demand of communication satellites for reconnaissance and surveillance operations, rising number of space missions, and considerable use of these technologies for developing power management devices.

Q4. What are the major segments for radiation-hardened electronic market?

Answer: The future of the radiation-hardened electronic market looks promising with opportunities in the space, aerospace & defense, nuclear power plant, and medical applications.

Q5. Who are the key radiation-hardened electronic companies?

Answer: Some of the key radiation-hardened electronic companies are as follows:

Microchip Technology

BAE Systems

Renesas Electronics

Infineon Technologies

STMicroelectronics

Xilinx

Texas Instruments

Q6. Which radiation-hardened electronic segment will be the largest in future?

Answer: Lucintel forecasts that power management will remain the largest segment over the forecast period due to the growing need for these devices in outer spaces, which ensures extreme durability against high-energy charged particles and ionizing radiation.

Q7. In radiation-hardened electronic market, which region is expected to be the largest in next 5 years?

Answer: North America will remain the largest region due to the presence of key players, supportive government investment for advanced radiation-hardened electronic for space projects, and increasing number of users for satellite-based telemetry and communication systems in the region.

Q8. Do we receive customization in this report?

Answer: Yes, Lucintel provides 10% Customization Without any Additional Cost.

This report answers following 11 key questions

Q.1. What are some of the most promising, high-growth opportunities for the radiation-hardened electronic market by product type (mixed signal ICs, processors & controllers, memory, and power management), component (radiation-hardening by design and radiation-hardening by process), manufacturing technique (commercial-off-the-shelf and custom made), application (space, aerospace & defense, nuclear power plant, medical, and others), and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2. Which segments will grow at a faster pace and why?

Q.3. Which region will grow at a faster pace and why?

Q.4. What are the key factors affecting market dynamics? What are the key challenges and business risks in this market?

Q.5. What are the business risks and competitive threats in this market?

Q.6. What are the emerging trends in this market and the reasons behind them?

Q.7. What are some of the changing demands of customers in the market?

Q.8. What are the new developments in the market? Which companies are leading these developments?

Q.9. Who are the major players in this market? What strategic initiatives are key players pursuing for business growth?

Q.10. What are some of the competing products in this market and how big of a threat do they pose for loss of market share by material or product substitution?

Q.11. What M&A activity has occurred in the last 5 years and what has its impact been on the industry?

## Contents

### 1. EXECUTIVE SUMMARY

### 2. GLOBAL RADIATION-HARDENED ELECTRONIC MARKET: MARKET DYNAMICS

2.1: Introduction, Background, and Classifications

2.2: Supply Chain

2.3: Industry Drivers and Challenges

### 3. MARKET TRENDS AND FORECAST ANALYSIS FROM 2017 TO 2028

3.1: Macroeconomic Trends (2017-2022) and Forecast (2023-2028)

3.2: Global Radiation-Hardened Electronic Market Trends (2017-2022) and Forecast (2023-2028)

3.3: Global Radiation-Hardened Electronic Market by Product Type

3.3.1: Mixed Signal ICs

3.3.2: Processors & Controllers

3.3.3: Memory

3.3.4: Power Management

3.4: Global Radiation-Hardened Electronic Market by Component

3.4.1: Radiation-Hardening by Design (RHBD)

3.4.2: Radiation-Hardening by Process (RHBP)

3.5: Global Radiation-Hardened Electronic Market by Manufacturing Technique

3.5.1: Commercial-off-the-Shelf (COTS)

3.5.2: Custom Made

3.6: Global Radiation-Hardened Electronic Market by Application

3.6.1: Space

3.6.2: Aerospace & Defense

3.6.3: Nuclear Power Plant

3.6.4: Medical

3.6.5: Others

### 4. MARKET TRENDS AND FORECAST ANALYSIS BY REGION FROM 2017 TO 2028

4.1: Global Radiation-Hardened Electronic Market by Region

4.2: North American Radiation-Hardened Electronic Market



- 4.2.1: North American Radiation-Hardened Electronic Market by Product Type: Mixed Signal ICs, Processors & Controllers, Memory, and Power Management
- 4.2.2: North American Radiation-Hardened Electronic Market by Application: Space, Aerospace & Defense, Nuclear Power Plant, Medical, and Others
- 4.3: European Radiation-Hardened Electronic Market
  - 4.3.1: European Radiation-Hardened Electronic Market by Product Type: Mixed Signal ICs, Processors & Controllers, Memory, and Power Management
  - 4.3.2: European Radiation-Hardened Electronic Market by Application: Space, Aerospace & Defense, Nuclear Power Plant, Medical, and Others
- 4.4: APAC Radiation-Hardened Electronic Market
  - 4.4.1: APAC Radiation-Hardened Electronic Market by Product Type: Mixed Signal ICs, Processors & Controllers, Memory, and Power Management
  - 4.4.2: APAC Radiation-Hardened Electronic Market by Application: Space, Aerospace & Defense, Nuclear Power Plant, Medical, and Others
- 4.5: ROW Radiation-Hardened Electronic Market
  - 4.5.1: ROW Radiation-Hardened Electronic Market by Product Type: Mixed Signal ICs, Processors & Controllers, Memory, and Power Management
  - 4.5.2: ROW Radiation-Hardened Electronic Market by Application: Space, Aerospace & Defense, Nuclear Power Plant, Medical, and Others

## **5. COMPETITOR ANALYSIS**

- 5.1: Product Portfolio Analysis
- 5.2: Operational Integration
- 5.3: Porter's Five Forces Analysis

## **6. GROWTH OPPORTUNITIES AND STRATEGIC ANALYSIS**

- 6.1: Growth Opportunity Analysis
  - 6.1.1: Growth Opportunities for the Global Radiation-Hardened Electronic Market by Product Type
  - 6.1.2: Growth Opportunities for the Global Radiation-Hardened Electronic Market by Component
  - 6.1.3: Growth Opportunities for the Global Radiation-Hardened Electronic Market by Manufacturing Technique
  - 6.1.4: Growth Opportunities for the Global Radiation-Hardened Electronic Market by Application
  - 6.1.5: Growth Opportunities for the Global Radiation-Hardened Electronic Market by Region

6.2: Emerging Trends in the Global Radiation-Hardened Electronic Market

6.3: Strategic Analysis

6.3.1: New Product Development

6.3.2: Capacity Expansion of the Global Radiation-Hardened Electronic Market

6.3.3: Mergers, Acquisitions, and Joint Ventures in the Global Radiation-Hardened Electronic Market

6.3.4: Certification and Licensing

## **7. COMPANY PROFILES OF LEADING PLAYERS**

7.1: Microchip Technology

7.2: BAE Systems

7.3: Renesas Electronics

7.4: Infineon Technologies

7.5: STMicroelectronics

7.6: Xilinx

7.7: Texas Instruments

## I would like to order

Product name: Radiation-Hardened Electronic Market: Trends, Opportunities and Competitive Analysis [2023-2028]

Product link: <https://marketpublishers.com/r/RC6DF1D78950EN.html>

Price: US\$ 4,850.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/RC6DF1D78950EN.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

