

Global Radiation Hardened Sensors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Radiation Hardened Sensors market size was valued at US\$ 830 million in 2025 and is forecast to a readjusted size of US\$ 1472 million by 2032 with a CAGR of 8.5% during review period.

Radiation hardened sensors are specialized sensing devices designed to maintain stable performance under high levels of ionizing radiation, including gamma rays, neutrons, and charged particles, commonly encountered in space, nuclear, and high-energy environments. These sensors cover a range of types such as image sensors, pressure sensors, temperature sensors, position sensors, and radiation detectors, and are engineered using radiation-tolerant materials, circuit designs, and shielding techniques. From a value chain perspective, upstream activities include radiation-hardened semiconductor wafers, specialty materials, packaging technologies, and testing facilities, midstream processes focus on sensor design, fabrication, radiation qualification, and reliability validation, while downstream demand is driven by aerospace agencies, satellite manufacturers, nuclear power operators, defense contractors, research institutions, and high-reliability industrial users. In 2025, the average selling price of radiation hardened sensors is approximately US\$4,800 per unit, with global sales volume reaching around 168 thousand units. The industry maintains a gross margin of 50%–70%, supported by high certification barriers, limited qualified suppliers, long qualification cycles, and mission-critical application requirements.

This report is a detailed and comprehensive analysis for global Radiation Hardened Sensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as

well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Radiation Hardened Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Radiation Hardened Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Radiation Hardened Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Radiation Hardened Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Radiation Hardened Sensors
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Radiation Hardened Sensors market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Teledyne Technologies, Honeywell, BAE Systems, Microchip Technology, Analog Devices, STMicroelectronics, Beijing Sevenstar Electronics, CETC Sensors Institute, Shanghai Aerospace Electronics, Cobham Advanced Electronic Solutions, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Radiation Hardened Sensors market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Image Sensors

Pressure Sensors

Temperature Sensors

Position Sensors

Radiation Detectors

Market segment by Radiation Type

Gamma Radiation

Neutron Radiation

Charged Particle Radiation

Market segment by Packaging Type

Ceramic Package

Metal Can Package

Hermetic Sealed Package

Market segment by Temperature Operating Range

Standard Industrial Range

Extended Temperature Range

Extreme Temperature Range

Market segment by Application

Aerospace

Military

Other

Major players covered

Teledyne Technologies

Honeywell

BAE Systems

Microchip Technology

Analog Devices

STMicroelectronics

Beijing Sevenstar Electronics

CETC Sensors Institute

Shanghai Aerospace Electronics

Cobham Advanced Electronic Solutions

Texas Instruments (TI)

Infineon Technologies AG

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Radiation Hardened Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Radiation Hardened Sensors, with price, sales quantity, revenue, and global market share of Radiation Hardened Sensors from 2021 to 2026.

Chapter 3, the Radiation Hardened Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Radiation Hardened Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Radiation Hardened Sensors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Radiation Hardened Sensors.

Chapter 14 and 15, to describe Radiation Hardened Sensors sales channel, distributors, customers, research findings and conclusion.

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