+357 96 030922
info@marketpublishers.com

Global CT Detector Readout IC Market Growth 2026-2032

https://marketpublishers.com/r/G3688A177237EN.html
Date: October 2026
Pages: 101
Price: US$ 3,660.00 (Single User License)
ID: G3688A177237EN

Abstracts

The global CT Detector Readout IC market size is predicted to grow from US$ 90.59 million in 2025 to US$ 174 million in 2032; it is expected to grow at a CAGR of 10.0% from 2026 to 2032.

CT Detector Readout IC is a specialized analog or mixed-signal integrated circuit used to acquire, condition, digitize, and transmit electrical signals generated by computed tomography detector elements. In conventional energy-integrating systems, the device connects primarily to scintillator–photodiode arrays and integrates low-level current over defined sampling periods before high-resolution analog-to-digital conversion. Commercial products commonly integrate multiple low-noise channels, simultaneous sampling, programmable input range, calibration functions, and high-speed serial output, with channel counts ranging from several dozen to several hundred and conversion resolution reaching up to 24 bits. In photon-counting CT, the readout function is implemented through pixel- or strip-based ASIC architectures that amplify individual charge pulses, apply energy thresholds, count events, perform energy binning, and control data transmission under high count-rate conditions. Key technical parameters include input noise, dynamic range, channel density, integration time, sampling rate, power consumption, linearity, count-rate capability, dead time, energy-bin count, crosstalk, thermal performance, and compatibility with scintillator–photodiode, CZT, CdTe, or silicon detector structures. The research scope focuses on dedicated readout devices used in medical diagnostic CT, security CT, industrial and nondestructive testing CT, dental and cone-beam CT, micro-CT, and preclinical imaging.

Key Findings

+357 96 030922
info@marketpublishers.com

The strict Core Formal List contains five verified manufacturers across merchant, captive, and module-integrated business models

Three high-confidence suppliers offer publicly documented merchant CT Detector Readout IC products

Energy-integrating readout ICs remain the commercial base while photon-counting ASICs lead product upgrading

Europe hosts three of the five verified core manufacturers while North America hosts two

Unit volume is measured in pieces but channel density and detector architecture determine system-level value

Market Trends

The principal development direction of the CT Detector Readout IC industry is the transition from conventional multi-channel current integration toward higher-density, more highly integrated, and spectrally capable readout architectures. Energy-integrating devices continue to improve through lower input noise, reduced power per channel, shorter integration time, higher channel count, simultaneous sampling, and simplified board-level connectivity. Photon-counting designs are moving the value proposition beyond conventional ADC performance by incorporating pulse amplification, threshold discrimination, event counting, multiple energy bins, and increasingly complex data-management functions. Detector materials and readout electronics are also becoming more closely coupled, particularly in CZT, CdTe, and silicon direct-conversion systems that require fine-pitch interconnection, hybrid bonding, thermal control, and detector-specific calibration. As a result, the industry is moving from component-level optimization toward coordinated development of detector material, ASIC architecture, packaging, firmware, and image-processing algorithms. Commercialization is also progressing from limited premium installations toward broader product portfolios and dedicated production capacity; Siemens Healthineers has disclosed an €80 million investment to expand photon-counting detector production in Forchheim, Germany.

Market Dynamics

Drivers

+357 96 030922
info@marketpublishers.com

Demand for CT Detector Readout IC products is supported by continuing upgrades in CT image resolution, scanning speed, dose efficiency, spectral capability, and detector-row density. Medical system manufacturers require lower-noise and lower-power acquisition electronics to improve contrast-to-noise performance without increasing detector heat or system complexity. Photon-counting CT creates an additional semiconductor-content driver because each detector element requires event-level processing, energy discrimination, and substantially more complex data handling than conventional integration-based architectures. Security and industrial CT also support demand through increasing use of three-dimensional inspection, automated material identification, battery and electronics inspection, and high-throughput nondestructive testing. These applications favor readout products that combine high dynamic range, rapid acquisition, stable calibration, compact packaging, and long operational life.

Restraints

Market expansion is constrained by the specialized and relatively low-volume nature of CT readout semiconductor demand compared with mainstream analog and digital IC markets. Product development requires substantial nonrecurring engineering expenditure, long design cycles, application-specific packaging, and extensive system qualification, while sales volumes may remain concentrated in a limited number of CT platforms. Medical applications impose particularly demanding requirements for noise consistency, linearity, thermal stability, long-term availability, traceability, and change control. The increasing use of captive ASICs by major CT system manufacturers can reduce the accessible merchant market even when total semiconductor value per scanner is increasing. In addition, photon-counting devices face yield and cost pressure associated with fine-pitch detector interconnection, material uniformity, high channel density, data bandwidth, and heat dissipation. These conditions limit rapid supplier entry and make customer qualification costly for both incumbent and emerging manufacturers.

Opportunities

The most significant opportunity lies in photon-counting and spectral CT, where higher chip complexity, additional energy-processing functions, and closer detector integration can raise semiconductor value per system. Opportunities also exist in higher-channel-count energy-integrating products that reduce detector-board area, cabling, external components, and calibration complexity. Industrial inspection represents another attractive development area, particularly for battery cells, semiconductor packages, additive-manufactured parts, aerospace components, and automated production-line

+357 96 030922
info@marketpublishers.com

inspection requiring faster three-dimensional imaging. Security CT benefits from improved material discrimination and higher throughput, while dental, cone-beam, micro-CT, and preclinical systems offer opportunities for compact, low-power, application-specific designs. Localized semiconductor and detector supply chains may also create openings for custom ASIC providers, packaging companies, and regional system manufacturers that can demonstrate stable yield, detector compatibility, and long-term product support.

Challenges

The industry's main long-term challenge is converting advanced detector and ASIC concepts into repeatable, economically viable production. Photon-counting performance depends not only on the readout circuit but also on detector-material quality, pixel interconnection, threshold calibration, charge sharing, count-rate linearity, thermal design, and reconstruction software. Differences in detector geometry, material, system architecture, and proprietary interfaces reduce standardization and make it difficult for a single chip platform to address multiple CT manufacturers without customization. Intellectual-property protection and customer confidentiality further limit market transparency, particularly for captive ASICs and outsourced custom designs. Emerging suppliers must therefore overcome more than chip-design barriers; they must establish wafer and packaging yield, medical-grade reliability, application engineering capability, quality systems, and long-term supply commitments. Established suppliers also face the risk that conventional products may experience price erosion while next-generation development requires substantially higher investment.

Industry Chain Analysis

The CT Detector Readout IC industry chain begins with semiconductor design tools, analog and mixed-signal intellectual property, CMOS wafer processes, photodiodes, scintillators, CZT, CdTe, silicon detector materials, packaging substrates, interposers, and high-density interconnection technologies. The middle of the chain includes readout-architecture development, circuit design, wafer fabrication, wafer probing, packaging, final testing, calibration, and detector-level integration. Merchant standard IC suppliers retain responsibility for product definition, design, qualification, and lifecycle support while using a combination of internal and external manufacturing resources. Captive ASIC programs are controlled by CT system or detector manufacturers and may rely on external foundries, design-service companies, or packaging partners without disclosing the underlying manufacturing structure. Module-integrated suppliers add value by combining detector materials, readout ASICs, interconnection, thermal management,

+357 96 030922
info@marketpublishers.com

control electronics, and calibration into a qualified detector assembly. Downstream value is created through detector boards, data-acquisition systems, CT gantries, system control, reconstruction software, and application-specific imaging workflows. The largest cost components at chip level include engineering development, mask and wafer cost, mixed-signal testing, specialized packaging, yield management, and long-term quality assurance. Profitability depends less on raw wafer cost than on proprietary low-noise architecture, channel density, qualification status, design-in duration, manufacturing consistency, and the ability to support customers over extended equipment lifecycles.

Segment Insights

By readout principle, energy-integrating readout ICs remain the largest established commercial segment because the global installed base of conventional scintillator–photodiode CT systems continues to require new-production, replacement, and lifecycle-support components. Publicly documented merchant products currently cover 64-channel, 128-channel, and 256-channel configurations, with high-resolution conversion, simultaneous sampling, and low-noise current integration forming the central value proposition. Photon-counting readout ASICs represent the most technologically dynamic segment. Their growth is linked to pixel- or strip-level event processing, multiple energy thresholds, high count-rate operation, spectral imaging, and direct-conversion detector integration.

By product type, standard merchant readout ICs provide the most transparent product and pricing structure but are supplied by only a small number of verified manufacturers. Captive readout ASICs and module-integrated devices account for a less visible but strategically important share of industry value because they are embedded in proprietary detectors and complete CT systems. By detector interface, scintillator–photodiode products remain the commercial foundation, while CZT, CdTe, and silicon direct-conversion interfaces represent the principal technology-upgrade opportunity. By integration architecture, standalone packaged ICs remain important in conventional systems, whereas hybrid-bonded detector ASICs and increasingly integrated sensor-readout structures are more relevant to photon-counting designs.

Downstream Market Opportunities

Medical diagnostic CT remains the primary value pool because it places the highest requirements on image quality, reliability, dose efficiency, detector consistency, and long-term component availability. Within medical imaging, cardiac, neurological, oncological, musculoskeletal, pediatric, and emergency applications create demand for

+357 96 030922
info@marketpublishers.com

higher spatial resolution, faster acquisition, spectral information, and improved material differentiation. Security CT provides a separate opportunity through automated baggage and parcel screening, where high throughput and reliable material identification are central purchasing criteria. Industrial and nondestructive testing applications are expanding the addressable market toward battery inspection, semiconductor packaging, electronics, castings, aerospace parts, and advanced manufacturing quality control. Dental and cone-beam CT, micro-CT, and preclinical imaging offer smaller but technically differentiated opportunities for compact, low-power, and application-specific readout solutions.

Regional Insights

The supply structure is concentrated in Europe and North America. Europe hosts three of the five verified Core Formal List manufacturers and combines merchant semiconductor products, captive CT ASIC development, photon-counting detector integration, and specialized imaging-detector capabilities. North America hosts two verified merchant readout IC suppliers and also maintains significant system-level, detector, and direct-conversion technology development outside the strict chip-manufacturer list. Japan has vertically integrated photon-counting detector development through major medical imaging groups, although the available evidence does not support adding another independent merchant CT Detector Readout IC supplier to the strict core list. China represents the most active localization opportunity, with emerging capabilities in radiation-readout ASICs, detector front-end modules, packaging, and medical imaging semiconductors, but supplier qualification still depends on verifiable chip ownership, production yield, reliability, and adoption by established CT system manufacturers. South Korea, Taiwan, Southeast Asia, and India possess relevant semiconductor manufacturing or electronics capabilities, while confirmed proprietary CT readout product suppliers remain limited.

Competitive Landscape Analysis

Texas Instruments, Infineon Technologies, and Analog Devices form the verified merchant supplier group, offering publicly documented multi-channel current-input conversion products for CT detector acquisition. Siemens Healthineers represents the captive ASIC model, where detector and readout technologies are developed as part of a vertically integrated CT platform rather than sold as standalone semiconductors. DECTRIS represents the module-integrated photon-counting model, combining ASIC capability with hybrid-pixel detector products and specialized imaging applications. Competitive advantage in merchant products is based on noise performance, channel

+357 96 030922
info@marketpublishers.com

density, power efficiency, conversion accuracy, product longevity, and customer qualification. Captive and module-integrated competitors differentiate through detector-material integration, packaging, calibration, spectral performance, and system-level control. The completed transfer of the former ams OSRAM non-optical analog and mixed-signal sensor portfolio to Infineon further consolidates ownership of established CT interface products and illustrates how strategic portfolio transactions can change supplier identity without materially expanding the number of qualified market participants.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “CT Detector Readout IC Industry Forecast” looks at past sales and reviews total world CT Detector Readout IC sales in 2025, providing a comprehensive analysis by region and market sector of projected CT Detector Readout IC sales for 2026 through 2032. With CT Detector Readout IC sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world CT Detector Readout IC industry.

This Insight Report provides a comprehensive analysis of the global CT Detector Readout IC landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on CT Detector Readout IC portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global CT Detector Readout IC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for CT Detector Readout IC and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global CT Detector Readout IC.

This report presents a comprehensive overview, market shares, and growth opportunities of CT Detector Readout IC market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

+357 96 030922
info@marketpublishers.com

Segmentation by Type:

Standard Readout IC

Captive Readout ASIC

Other Product Type

Segmentation by Readout Principle:

Energy-Integrating Readout IC

Photon-Counting Readout ASIC

Other Readout Principle

Segmentation by Detector Interface:

Scintillator-Photodiode Interface

CZT or CdTe Interface

Silicon Direct-Conversion Interface

Other Semiconductor Detector Interface

Segmentation by Integration Architecture:

Standalone Readout IC

Hybrid-Bonded Detector ASIC

Monolithic Sensor-Readout IC

+357 96 030922
info@marketpublishers.com

Other Integration Architecture

Segmentation by Application:

Medical Diagnostic CT

Security CT

Industrial and NDT CT

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

+357 96 030922
info@marketpublishers.com

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Siemens Healthineers AG

Texas Instruments Incorporated

Infineon Technologies AG

Analog Devices, Inc.

+357 96 030922
info@marketpublishers.com

DECTRIS AG

Brigates Microelectronics Co., Ltd.

United Imaging Microelectronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global CT Detector Readout IC market?

What factors are driving CT Detector Readout IC market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do CT Detector Readout IC market opportunities vary by end market size?

How does CT Detector Readout IC break out by Type, by Application?

+357 96 030922
info@marketpublishers.com

Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global CT Detector Readout IC Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for CT Detector Readout IC by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for CT Detector Readout IC by Country/Region, 2021, 2025 & 2032
2.2 CT Detector Readout IC Segment by Type
  2.2.1 Standard Readout IC
  2.2.2 Captive Readout ASIC
  2.2.3 Other Product Type
  2.2.4 CT Detector Readout IC Sales by Type
    2.2.4.1 Global CT Detector Readout IC Sales Market Share by Type (2021-2026)
    2.2.4.2 Global CT Detector Readout IC Revenue and Market Share by Type (2021-2026)
    2.2.4.3 Global CT Detector Readout IC Sale Price by Type (2021-2026)
2.3 CT Detector Readout IC Segment by Readout Principle
  2.3.1 Energy-Integrating Readout IC
  2.3.2 Photon-Counting Readout ASIC
  2.3.3 Other Readout Principle
  2.3.4 CT Detector Readout IC Sales by Readout Principle
    2.3.4.1 Global CT Detector Readout IC Sales Market Share by Readout Principle (2021-2026)
    2.3.4.2 Global CT Detector Readout IC Revenue and Market Share by Readout Principle (2021-2026)

+357 96 030922
info@marketpublishers.com

2.3.4.3 Global CT Detector Readout IC Sale Price by Readout Principle (2021-2026)
2.4 CT Detector Readout IC Segment by Detector Interface
2.4.1 Scintillator-Photodiode Interface
2.4.2 CZT or CdTe Interface
2.4.3 Silicon Direct-Conversion Interface
2.4.4 Other Semiconductor Detector Interface
2.4.5 CT Detector Readout IC Sales by Detector Interface
2.4.5.1 Global CT Detector Readout IC Sales Market Share by Detector Interface (2021-2026)
2.4.5.2 Global CT Detector Readout IC Revenue and Market Share by Detector Interface (2021-2026)
2.4.5.3 Global CT Detector Readout IC Sale Price by Detector Interface (2021-2026)
2.5 CT Detector Readout IC Segment by Integration Architecture
2.5.1 Standalone Readout IC
2.5.2 Hybrid-Bonded Detector ASIC
2.5.3 Monolithic Sensor-Readout IC
2.5.4 Other Integration Architecture
2.5.5 CT Detector Readout IC Sales by Integration Architecture
2.5.5.1 Global CT Detector Readout IC Sales Market Share by Integration Architecture (2021-2026)
2.5.5.2 Global CT Detector Readout IC Revenue and Market Share by Integration Architecture (2021-2026)
2.5.5.3 Global CT Detector Readout IC Sale Price by Integration Architecture (2021-2026)
2.6 CT Detector Readout IC Segment by Application
2.6.1 Medical Diagnostic CT
2.6.2 Security CT
2.6.3 Industrial and NDT CT
2.6.4 Other
2.6.5 CT Detector Readout IC Sales by Application
2.6.5.1 Global CT Detector Readout IC Sale Market Share by Application (2021-2026)
2.6.5.2 Global CT Detector Readout IC Revenue and Market Share by Application (2021-2026)
2.6.5.3 Global CT Detector Readout IC Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global CT Detector Readout IC Breakdown Data by Company

+357 96 030922
info@marketpublishers.com

3.1.1 Global CT Detector Readout IC Annual Sales by Company (2021-2026)
3.1.2 Global CT Detector Readout IC Sales Market Share by Company (2021-2026)
3.2 Global CT Detector Readout IC Annual Revenue by Company (2021-2026)
3.2.1 Global CT Detector Readout IC Revenue by Company (2021-2026)
3.2.2 Global CT Detector Readout IC Revenue Market Share by Company (2021-2026)
3.3 Global CT Detector Readout IC Sale Price by Company
3.4 Key Manufacturers CT Detector Readout IC Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers CT Detector Readout IC Product Location Distribution
3.4.2 Players CT Detector Readout IC Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR CT DETECTOR READOUT IC BY GEOGRAPHIC REGION

4.1 World Historic CT Detector Readout IC Market Size by Geographic Region (2021-2026)
4.1.1 Global CT Detector Readout IC Annual Sales by Geographic Region (2021-2026)
4.1.2 Global CT Detector Readout IC Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic CT Detector Readout IC Market Size by Country/Region (2021-2026)
4.2.1 Global CT Detector Readout IC Annual Sales by Country/Region (2021-2026)
4.2.2 Global CT Detector Readout IC Annual Revenue by Country/Region (2021-2026)
4.3 Americas CT Detector Readout IC Sales Growth
4.4 APAC CT Detector Readout IC Sales Growth
4.5 Europe CT Detector Readout IC Sales Growth
4.6 Middle East & Africa CT Detector Readout IC Sales Growth

5 AMERICAS

5.1 Americas CT Detector Readout IC Sales by Country
5.1.1 Americas CT Detector Readout IC Sales by Country (2021-2026)
5.1.2 Americas CT Detector Readout IC Revenue by Country (2021-2026)

+357 96 030922
info@marketpublishers.com

5.2 Americas CT Detector Readout IC Sales by Type (2021-2026)
5.3 Americas CT Detector Readout IC Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC CT Detector Readout IC Sales by Region
  6.1.1 APAC CT Detector Readout IC Sales by Region (2021-2026)
  6.1.2 APAC CT Detector Readout IC Revenue by Region (2021-2026)
6.2 APAC CT Detector Readout IC Sales by Type (2021-2026)
6.3 APAC CT Detector Readout IC Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe CT Detector Readout IC by Country
  7.1.1 Europe CT Detector Readout IC Sales by Country (2021-2026)
  7.1.2 Europe CT Detector Readout IC Revenue by Country (2021-2026)
7.2 Europe CT Detector Readout IC Sales by Type (2021-2026)
7.3 Europe CT Detector Readout IC Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa CT Detector Readout IC by Country
  8.1.1 Middle East & Africa CT Detector Readout IC Sales by Country (2021-2026)

+357 96 030922
info@marketpublishers.com

8.1.2 Middle East & Africa CT Detector Readout IC Revenue by Country (2021-2026)
8.2 Middle East & Africa CT Detector Readout IC Sales by Type (2021-2026)
8.3 Middle East & Africa CT Detector Readout IC Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of CT Detector Readout IC
10.3 Manufacturing Process Analysis of CT Detector Readout IC
10.4 Industry Chain Structure of CT Detector Readout IC

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
11.1.1 Direct Channels
11.1.2 Indirect Channels
11.2 CT Detector Readout IC Distributors
11.3 CT Detector Readout IC Customer

12 WORLD FORECAST REVIEW FOR CT DETECTOR READOUT IC BY GEOGRAPHIC REGION

12.1 Global CT Detector Readout IC Market Size Forecast by Region
12.1.1 Global CT Detector Readout IC Forecast by Region (2027-2032)
12.1.2 Global CT Detector Readout IC Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)

+357 96 030922
info@marketpublishers.com

12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global CT Detector Readout IC Forecast by Type (2027-2032)
12.7 Global CT Detector Readout IC Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Siemens Healthineers AG
13.1.1 Siemens Healthineers AG Company Information
13.1.2 Siemens Healthineers AG CT Detector Readout IC Product Portfolios and Specifications
13.1.3 Siemens Healthineers AG CT Detector Readout IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 Siemens Healthineers AG Main Business Overview
13.1.5 Siemens Healthineers AG Latest Developments
13.2 Texas Instruments Incorporated
13.2.1 Texas Instruments Incorporated Company Information
13.2.2 Texas Instruments Incorporated CT Detector Readout IC Product Portfolios and Specifications
13.2.3 Texas Instruments Incorporated CT Detector Readout IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 Texas Instruments Incorporated Main Business Overview
13.2.5 Texas Instruments Incorporated Latest Developments
13.3 Infineon Technologies AG
13.3.1 Infineon Technologies AG Company Information
13.3.2 Infineon Technologies AG CT Detector Readout IC Product Portfolios and Specifications
13.3.3 Infineon Technologies AG CT Detector Readout IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Infineon Technologies AG Main Business Overview
13.3.5 Infineon Technologies AG Latest Developments
13.4 Analog Devices, Inc.
13.4.1 Analog Devices, Inc. Company Information
13.4.2 Analog Devices, Inc. CT Detector Readout IC Product Portfolios and Specifications
13.4.3 Analog Devices, Inc. CT Detector Readout IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Analog Devices, Inc. Main Business Overview
13.4.5 Analog Devices, Inc. Latest Developments

+357 96 030922
info@marketpublishers.com

13.5 DECTRIS AG
13.5.1 DECTRIS AG Company Information
13.5.2 DECTRIS AG CT Detector Readout IC Product Portfolios and Specifications
13.5.3 DECTRIS AG CT Detector Readout IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 DECTRIS AG Main Business Overview
13.5.5 DECTRIS AG Latest Developments
13.6 Brigates Microelectronics Co., Ltd.
13.6.1 Brigates Microelectronics Co., Ltd. Company Information
13.6.2 Brigates Microelectronics Co., Ltd. CT Detector Readout IC Product Portfolios and Specifications
13.6.3 Brigates Microelectronics Co., Ltd. CT Detector Readout IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Brigates Microelectronics Co., Ltd. Main Business Overview
13.6.5 Brigates Microelectronics Co., Ltd. Latest Developments
13.7 United Imaging Microelectronics
13.7.1 United Imaging Microelectronics Company Information
13.7.2 United Imaging Microelectronics CT Detector Readout IC Product Portfolios and Specifications
13.7.3 United Imaging Microelectronics CT Detector Readout IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 United Imaging Microelectronics Main Business Overview
13.7.5 United Imaging Microelectronics Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. CT Detector Readout IC Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. CT Detector Readout IC Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Standard Readout IC
Table 4. Major Players of Captive Readout ASIC
Table 5. Major Players of Other Product Type
Table 6. Global CT Detector Readout IC Sales by Type (2021-2026) & (Million Units)
Table 7. Global CT Detector Readout IC Sales Market Share by Type (2021-2026)
Table 8. Global CT Detector Readout IC Revenue by Type (2021-2026) & ($ million)
Table 9. Global CT Detector Readout IC Revenue Market Share by Type (2021-2026)
Table 10. Global CT Detector Readout IC Sale Price by Type (2021-2026) & (US$/Unit)
Table 11. Major Players of Energy-Integrating Readout IC
Table 12. Major Players of Photon-Counting Readout ASIC
Table 13. Major Players of Other Readout Principle
Table 14. Global CT Detector Readout IC Sales by Readout Principle (2021-2026) & (Million Units)
Table 15. Global CT Detector Readout IC Sales Market Share by Readout Principle (2021-2026)
Table 16. Global CT Detector Readout IC Revenue by Readout Principle (2021-2026) & ($ million)
Table 17. Global CT Detector Readout IC Revenue Market Share by Readout Principle (2021-2026)
Table 18. Global CT Detector Readout IC Sale Price by Readout Principle (2021-2026) & (US$/Unit)
Table 19. Major Players of Scintillator-Photodiode Interface
Table 20. Major Players of CZT or CdTe Interface
Table 21. Major Players of Silicon Direct-Conversion Interface
Table 22. Major Players of Other Semiconductor Detector Interface
Table 23. Global CT Detector Readout IC Sales by Detector Interface (2021-2026) & (Million Units)
Table 24. Global CT Detector Readout IC Sales Market Share by Detector Interface (2021-2026)
Table 25. Global CT Detector Readout IC Revenue by Detector Interface (2021-2026) & ($ million)

+357 96 030922
info@marketpublishers.com

Table 26. Global CT Detector Readout IC Revenue Market Share by Detector Interface (2021-2026)
Table 27. Global CT Detector Readout IC Sale Price by Detector Interface (2021-2026) & (US$/Unit)
Table 28. Major Players of Standalone Readout IC
Table 29. Major Players of Hybrid-Bonded Detector ASIC
Table 30. Major Players of Monolithic Sensor-Readout IC
Table 31. Major Players of Other Integration Architecture
Table 32. Global CT Detector Readout IC Sales by Integration Architecture (2021-2026) & (Million Units)
Table 33. Global CT Detector Readout IC Sales Market Share by Integration Architecture (2021-2026)
Table 34. Global CT Detector Readout IC Revenue by Integration Architecture (2021-2026) & ($ million)
Table 35. Global CT Detector Readout IC Revenue Market Share by Integration Architecture (2021-2026)
Table 36. Global CT Detector Readout IC Sale Price by Integration Architecture (2021-2026) & (US$/Unit)
Table 37. Global CT Detector Readout IC Sale by Application (2021-2026) & (Million Units)
Table 38. Global CT Detector Readout IC Sale Market Share by Application (2021-2026)
Table 39. Global CT Detector Readout IC Revenue by Application (2021-2026) & ($ million)
Table 40. Global CT Detector Readout IC Revenue Market Share by Application (2021-2026)
Table 41. Global CT Detector Readout IC Sale Price by Application (2021-2026) & (US$/Unit)
Table 42. Global CT Detector Readout IC Sales by Company (2021-2026) & (Million Units)
Table 43. Global CT Detector Readout IC Sales Market Share by Company (2021-2026)
Table 44. Global CT Detector Readout IC Revenue by Company (2021-2026) & ($ millions)
Table 45. Global CT Detector Readout IC Revenue Market Share by Company (2021-2026)
Table 46. Global CT Detector Readout IC Sale Price by Company (2021-2026) & (US$/Unit)
Table 47. Key Manufacturers CT Detector Readout IC Producing Area Distribution and

+357 96 030922
info@marketpublishers.com

Sales Area
Table 48. Players CT Detector Readout IC Products Offered
Table 49. CT Detector Readout IC Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 50. New Products and Potential Entrants
Table 51. Market M&A Activity & Strategy
Table 52. Global CT Detector Readout IC Sales by Geographic Region (2021-2026) & (Million Units)
Table 53. Global CT Detector Readout IC Sales Market Share Geographic Region (2021-2026)
Table 54. Global CT Detector Readout IC Revenue by Geographic Region (2021-2026) & ($ millions)
Table 55. Global CT Detector Readout IC Revenue Market Share by Geographic Region (2021-2026)
Table 56. Global CT Detector Readout IC Sales by Country/Region (2021-2026) & (Million Units)
Table 57. Global CT Detector Readout IC Sales Market Share by Country/Region (2021-2026)
Table 58. Global CT Detector Readout IC Revenue by Country/Region (2021-2026) & ($ millions)
Table 59. Global CT Detector Readout IC Revenue Market Share by Country/Region (2021-2026)
Table 60. Americas CT Detector Readout IC Sales by Country (2021-2026) & (Million Units)
Table 61. Americas CT Detector Readout IC Sales Market Share by Country (2021-2026)
Table 62. Americas CT Detector Readout IC Revenue by Country (2021-2026) & ($ millions)
Table 63. Americas CT Detector Readout IC Sales by Type (2021-2026) & (Million Units)
Table 64. Americas CT Detector Readout IC Sales by Application (2021-2026) & (Million Units)
Table 65. APAC CT Detector Readout IC Sales by Region (2021-2026) & (Million Units)
Table 66. APAC CT Detector Readout IC Sales Market Share by Region (2021-2026)
Table 67. APAC CT Detector Readout IC Revenue by Region (2021-2026) & ($ millions)
Table 68. APAC CT Detector Readout IC Sales by Type (2021-2026) & (Million Units)
Table 69. APAC CT Detector Readout IC Sales by Application (2021-2026) & (Million Units)

+357 96 030922
info@marketpublishers.com

Table 70. Europe CT Detector Readout IC Sales by Country (2021-2026) & (Million Units)
Table 71. Europe CT Detector Readout IC Revenue by Country (2021-2026) & ($ millions)
Table 72. Europe CT Detector Readout IC Sales by Type (2021-2026) & (Million Units)
Table 73. Europe CT Detector Readout IC Sales by Application (2021-2026) & (Million Units)
Table 74. Middle East & Africa CT Detector Readout IC Sales by Country (2021-2026) & (Million Units)
Table 75. Middle East & Africa CT Detector Readout IC Revenue Market Share by Country (2021-2026)
Table 76. Middle East & Africa CT Detector Readout IC Sales by Type (2021-2026) & (Million Units)
Table 77. Middle East & Africa CT Detector Readout IC Sales by Application (2021-2026) & (Million Units)
Table 78. Key Market Drivers & Growth Opportunities of CT Detector Readout IC
Table 79. Key Market Challenges & Risks of CT Detector Readout IC
Table 80. Key Industry Trends of CT Detector Readout IC
Table 81. CT Detector Readout IC Raw Material
Table 82. Key Suppliers of Raw Materials
Table 83. CT Detector Readout IC Distributors List
Table 84. CT Detector Readout IC Customer List
Table 85. Global CT Detector Readout IC Sales Forecast by Region (2027-2032) & (Million Units)
Table 86. Global CT Detector Readout IC Revenue Forecast by Region (2027-2032) & ($ millions)
Table 87. Americas CT Detector Readout IC Sales Forecast by Country (2027-2032) & (Million Units)
Table 88. Americas CT Detector Readout IC Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 89. APAC CT Detector Readout IC Sales Forecast by Region (2027-2032) & (Million Units)
Table 90. APAC CT Detector Readout IC Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 91. Europe CT Detector Readout IC Sales Forecast by Country (2027-2032) & (Million Units)
Table 92. Europe CT Detector Readout IC Revenue Forecast by Country (2027-2032) & ($ millions)
Table 93. Middle East & Africa CT Detector Readout IC Sales Forecast by Country

+357 96 030922
info@marketpublishers.com

(2027-2032) & (Million Units)
Table 94. Middle East & Africa CT Detector Readout IC Revenue Forecast by Country (2027-2032) & ($ millions)
Table 95. Global CT Detector Readout IC Sales Forecast by Type (2027-2032) & (Million Units)
Table 96. Global CT Detector Readout IC Revenue Forecast by Type (2027-2032) & ($ millions)
Table 97. Global CT Detector Readout IC Sales Forecast by Application (2027-2032) & (Million Units)
Table 98. Global CT Detector Readout IC Revenue Forecast by Application (2027-2032) & ($ millions)
Table 99. Siemens Healthineers AG Basic Information, CT Detector Readout IC Manufacturing Base, Sales Area and Its Competitors
Table 100. Siemens Healthineers AG CT Detector Readout IC Product Portfolios and Specifications
Table 101. Siemens Healthineers AG CT Detector Readout IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 102. Siemens Healthineers AG Main Business
Table 103. Siemens Healthineers AG Latest Developments
Table 104. Texas Instruments Incorporated Basic Information, CT Detector Readout IC Manufacturing Base, Sales Area and Its Competitors
Table 105. Texas Instruments Incorporated CT Detector Readout IC Product Portfolios and Specifications
Table 106. Texas Instruments Incorporated CT Detector Readout IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 107. Texas Instruments Incorporated Main Business
Table 108. Texas Instruments Incorporated Latest Developments
Table 109. Infineon Technologies AG Basic Information, CT Detector Readout IC Manufacturing Base, Sales Area and Its Competitors
Table 110. Infineon Technologies AG CT Detector Readout IC Product Portfolios and Specifications
Table 111. Infineon Technologies AG CT Detector Readout IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 112. Infineon Technologies AG Main Business
Table 113. Infineon Technologies AG Latest Developments
Table 114. Analog Devices, Inc. Basic Information, CT Detector Readout IC Manufacturing Base, Sales Area and Its Competitors
Table 115. Analog Devices, Inc. CT Detector Readout IC Product Portfolios and Specifications

+357 96 030922
info@marketpublishers.com

Table 116. Analog Devices, Inc. CT Detector Readout IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 117. Analog Devices, Inc. Main Business
Table 118. Analog Devices, Inc. Latest Developments
Table 119. DECTRIS AG Basic Information, CT Detector Readout IC Manufacturing Base, Sales Area and Its Competitors
Table 120. DECTRIS AG CT Detector Readout IC Product Portfolios and Specifications
Table 121. DECTRIS AG CT Detector Readout IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 122. DECTRIS AG Main Business
Table 123. DECTRIS AG Latest Developments
Table 124. Brigates Microelectronics Co., Ltd. Basic Information, CT Detector Readout IC Manufacturing Base, Sales Area and Its Competitors
Table 125. Brigates Microelectronics Co., Ltd. CT Detector Readout IC Product Portfolios and Specifications
Table 126. Brigates Microelectronics Co., Ltd. CT Detector Readout IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 127. Brigates Microelectronics Co., Ltd. Main Business
Table 128. Brigates Microelectronics Co., Ltd. Latest Developments
Table 129. United Imaging Microelectronics Basic Information, CT Detector Readout IC Manufacturing Base, Sales Area and Its Competitors
Table 130. United Imaging Microelectronics CT Detector Readout IC Product Portfolios and Specifications
Table 131. United Imaging Microelectronics CT Detector Readout IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 132. United Imaging Microelectronics Main Business
Table 133. United Imaging Microelectronics Latest Developments

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

Figure 1. Picture of CT Detector Readout IC
Figure 2. CT Detector Readout IC Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global CT Detector Readout IC Sales Growth Rate 2021-2032 (Million Units)
Figure 7. Global CT Detector Readout IC Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. CT Detector Readout IC Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. CT Detector Readout IC Sales Market Share by Country/Region (2025)
Figure 10. CT Detector Readout IC Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Standard Readout IC
Figure 12. Product Picture of Captive Readout ASIC
Figure 13. Product Picture of Other Product Type
Figure 14. Global CT Detector Readout IC Sales Market Share by Type in 2026
Figure 15. Global CT Detector Readout IC Revenue Market Share by Type (2021-2026)
Figure 16. Product Picture of Energy-Integrating Readout IC
Figure 17. Product Picture of Photon-Counting Readout ASIC
Figure 18. Product Picture of Other Readout Principle
Figure 19. Global CT Detector Readout IC Sales Market Share by Readout Principle in 2026
Figure 20. Global CT Detector Readout IC Revenue Market Share by Readout Principle (2021-2026)
Figure 21. Product Picture of Scintillator-Photodiode Interface
Figure 22. Product Picture of CZT or CdTe Interface
Figure 23. Product Picture of Silicon Direct-Conversion Interface
Figure 24. Product Picture of Other Semiconductor Detector Interface
Figure 25. Global CT Detector Readout IC Sales Market Share by Detector Interface in 2026
Figure 26. Global CT Detector Readout IC Revenue Market Share by Detector Interface (2021-2026)
Figure 27. Product Picture of Standalone Readout IC
Figure 28. Product Picture of Hybrid-Bonded Detector ASIC
Figure 29. Product Picture of Monolithic Sensor-Readout IC

+357 96 030922
info@marketpublishers.com

Figure 30. Product Picture of Other Integration Architecture
Figure 31. Global CT Detector Readout IC Sales Market Share by Integration Architecture in 2026
Figure 32. Global CT Detector Readout IC Revenue Market Share by Integration Architecture (2021-2026)
Figure 33. CT Detector Readout IC Consumed in Medical Diagnostic CT
Figure 34. Global CT Detector Readout IC Market: Medical Diagnostic CT (2021-2026) & (Million Units)
Figure 35. CT Detector Readout IC Consumed in Security CT
Figure 36. Global CT Detector Readout IC Market: Security CT (2021-2026) & (Million Units)
Figure 37. CT Detector Readout IC Consumed in Industrial and NDT CT
Figure 38. Global CT Detector Readout IC Market: Industrial and NDT CT (2021-2026) & (Million Units)
Figure 39. CT Detector Readout IC Consumed in Other
Figure 40. Global CT Detector Readout IC Market: Other (2021-2026) & (Million Units)
Figure 41. Global CT Detector Readout IC Sale Market Share by Application (2025)
Figure 42. Global CT Detector Readout IC Revenue Market Share by Application in 2025
Figure 43. CT Detector Readout IC Sales by Company in 2025 (Million Units)
Figure 44. Global CT Detector Readout IC Sales Market Share by Company in 2025
Figure 45. CT Detector Readout IC Revenue by Company in 2025 ($ millions)
Figure 46. Global CT Detector Readout IC Revenue Market Share by Company in 2025
Figure 47. Global CT Detector Readout IC Sales Market Share by Geographic Region (2021-2026)
Figure 48. Global CT Detector Readout IC Revenue Market Share by Geographic Region in 2025
Figure 49. Americas CT Detector Readout IC Sales 2021-2026 (Million Units)
Figure 50. Americas CT Detector Readout IC Revenue 2021-2026 ($ millions)
Figure 51. APAC CT Detector Readout IC Sales 2021-2026 (Million Units)
Figure 52. APAC CT Detector Readout IC Revenue 2021-2026 ($ millions)
Figure 53. Europe CT Detector Readout IC Sales 2021-2026 (Million Units)
Figure 54. Europe CT Detector Readout IC Revenue 2021-2026 ($ millions)
Figure 55. Middle East & Africa CT Detector Readout IC Sales 2021-2026 (Million Units)
Figure 56. Middle East & Africa CT Detector Readout IC Revenue 2021-2026 ($ millions)
Figure 57. Americas CT Detector Readout IC Sales Market Share by Country in 2025
Figure 58. Americas CT Detector Readout IC Revenue Market Share by Country (2021-2026)

+357 96 030922
info@marketpublishers.com

Figure 59. Americas CT Detector Readout IC Sales Market Share by Type (2021-2026)
Figure 60. Americas CT Detector Readout IC Sales Market Share by Application (2021-2026)
Figure 61. United States CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 62. Canada CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 63. Mexico CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 64. Brazil CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 65. APAC CT Detector Readout IC Sales Market Share by Region in 2025
Figure 66. APAC CT Detector Readout IC Revenue Market Share by Region (2021-2026)
Figure 67. APAC CT Detector Readout IC Sales Market Share by Type (2021-2026)
Figure 68. APAC CT Detector Readout IC Sales Market Share by Application (2021-2026)
Figure 69. China CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 70. Japan CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 71. South Korea CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 72. Southeast Asia CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 73. India CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 74. Australia CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 75. China Taiwan CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 76. Europe CT Detector Readout IC Sales Market Share by Country in 2025
Figure 77. Europe CT Detector Readout IC Revenue Market Share by Country (2021-2026)
Figure 78. Europe CT Detector Readout IC Sales Market Share by Type (2021-2026)
Figure 79. Europe CT Detector Readout IC Sales Market Share by Application (2021-2026)
Figure 80. Germany CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 81. France CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 82. UK CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 83. Italy CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 84. Russia CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 85. Middle East & Africa CT Detector Readout IC Sales Market Share by Country (2021-2026)
Figure 86. Middle East & Africa CT Detector Readout IC Sales Market Share by Type (2021-2026)

+357 96 030922
info@marketpublishers.com

Figure 87. Middle East & Africa CT Detector Readout IC Sales Market Share by Application (2021-2026)
Figure 88. Egypt CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 89. South Africa CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 90. Israel CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 91. Turkey CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 92. GCC Countries CT Detector Readout IC Revenue Growth 2021-2026 ($ millions)
Figure 93. Manufacturing Cost Structure Analysis of CT Detector Readout IC in 2026
Figure 94. Manufacturing Process Analysis of CT Detector Readout IC
Figure 95. Industry Chain Structure of CT Detector Readout IC
Figure 96. Channels of Distribution
Figure 97. Global CT Detector Readout IC Sales Market Forecast by Region (2027-2032)
Figure 98. Global CT Detector Readout IC Revenue Market Share Forecast by Region (2027-2032)
Figure 99. Global CT Detector Readout IC Sales Market Share Forecast by Type (2027-2032)
Figure 100. Global CT Detector Readout IC Revenue Market Share Forecast by Type (2027-2032)
Figure 101. Global CT Detector Readout IC Sales Market Share Forecast by Application (2027-2032)
Figure 102. Global CT Detector Readout IC Revenue Market Share Forecast by Application (2027-2032)

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global CT Detector Readout IC Market Growth 2026-2032
Product link: https://marketpublishers.com/r/G3688A177237EN.html
Price: US$ 3,660.00 (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/G3688A177237EN.html