

Global Medical Serial I2C EEPROM 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 Medical Serial I2C EEPROM market size was valued at US\$ 33.65 million in 2025 and is forecast to a readjusted size of US\$ 46.74 million by 2032 with a CAGR of 4.1% during review period.

Medical Serial I2C EEPROMs are high-reliability non-volatile memory chips with I2C serial bus interfaces, specifically designed for medical electronic devices. Complying with FDA 21 CFR Part 820 and ISO 13485 medical regulations, they feature wide operating temperature range (-40? to 85?), high data integrity, long data retention (up to 20 years), radiation resistance and high ESD protection, meeting the long-term stable data storage and traceability requirements of portable diagnostic devices, vital signs monitors, blood glucose meters, ECG monitors and other medical equipment.

The price of medical serial I2C EEPROMs varies by storage capacity, package form and purchase volume. The unit price of mainstream medical-grade (FDA/ISO-compliant) SOIC-8 packaged products ranges from 0.60 to 3.80 US dollars each. Small-capacity (1K?16Kbit) models are priced at 0.60 to 1.20 US dollars each, while medium and large-capacity (32K?1024Kbit) models cost 1.10 to 3.80 US dollars each. Bulk orders enjoy a discount of 10% to 20%. The industrial chain is well-developed. The upstream includes high-purity silicon wafers, special photoresists, medical-grade packaging materials and high-precision electronic chemicals. The midstream focuses on chip design, wafer fabrication, medical-grade reliability testing and packaging. Professional manufacturers at home and abroad (such as ST, Microchip, Giantec Semiconductor) occupy a major market share. The downstream serves medical device manufacturers, medical equipment system integrators and medical service institutions, widely used in home

healthcare, clinical diagnosis and monitoring equipment, forming a complete industrial chain from raw material supply and chip production to end medical applications.

This report is a detailed and comprehensive analysis for global Medical Serial I2C EEPROM 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 Medical Serial I2C EEPROM market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Medical Serial I2C EEPROM market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Medical Serial I2C EEPROM market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Medical Serial I2C EEPROM market shares of main players, shipments in revenue (\$ Million), sales quantity (Million 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 Medical Serial I2C EEPROM

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 Medical Serial I2C EEPROM 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 STMicroelectronics, Microchip, Giantec Semiconductor Corporation, ON Semiconductor, ABLIC, Puya Semiconductor, Fudan microelectronic, ROHM, Renesas Electronics, NXP Semiconductors, etc.

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

Market Segmentation

Medical Serial I2C EEPROM 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

Surface Mount Package

Through-hole Package

Others

Market segment by Interface

?16Kbit

32Kbit

64Kbit

128Kbit

256Kbit

512Kbit

1Mbit

?2Mbit

Market segment by Sales Channels

Direct Sales

Distribution

Market segment by Application

Diagnostic Equipment

Therapeutic Devices

Implantable Medical Devices

Patient Monitoring Systems

Laboratory Analysis Instruments

Others

Major players covered

STMicroelectronics

Microchip

Giantec Semiconductor Corporation

ON Semiconductor

ABLIC

Puya Semiconductor

Fudan microelectronic

ROHM

Renesas Electronics

NXP Semiconductors

Belling Corp

FMD

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 Medical Serial I2C EEPROM product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Medical Serial I2C EEPROM, with price, sales quantity, revenue, and global market share of Medical Serial I2C EEPROM from 2021 to 2026.

Chapter 3, the Medical Serial I2C EEPROM competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Medical Serial I2C EEPROM 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 Medical Serial I2C EEPROM 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 Medical Serial I2C EEPROM.

Chapter 14 and 15, to describe Medical Serial I2C EEPROM sales channel, distributors, customers, research findings and conclusion.

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