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Global I?C Serial EEPROM Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G75642F2FA55EN.html
Date: April 2026
Pages: 127
Price: US$ 4,480.00 (Single User License)
ID: G75642F2FA55EN

Abstracts

The global I?C Serial EEPROM market size is expected to reach $ 1278 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

I?C Serial EEPROM is a non-volatile semiconductor memory device that communicates through a two-wire I?C serial interface and utilizes floating-gate MOS technology to enable electrically erasable and reprogrammable data storage. It retains stored information without power for extended periods. The device is typically packaged in compact 8-pin formats such as SOIC, TSSOP, or WLCSP, and internally consists of a memory array, row/column decoders, page buffers, I?C interface control logic, and write-cycle management circuitry. Storage densities generally range from 1 Kb to 1 Mb, supporting byte and page write operations at communication speeds between 100 kHz and 1 MHz. With endurance exceeding one million write/erase cycles and data retention beyond 20 years, I?C Serial EEPROM is widely used in automotive electronics, industrial control systems, communication equipment, and consumer electronics to store configuration parameters, calibration data, device identification, and security credentials. It is characterized by low power consumption, high reliability, compact structure, and cost efficiency, making it a fundamental non-volatile memory component in embedded systems.

From the perspective of market development opportunities and main driving factors, I?C Serial EEPROM represents a mature non-volatile memory segment currently driven by stable demand expansion and structural upgrading. The acceleration of automotive electrification and intelligence, along with increasing penetration of new energy vehicles, has significantly boosted demand for highly reliable, automotive-grade EEPROM devices used in ADAS, infotainment systems, domain controllers, and battery management systems. Meanwhile, rapid growth in industrial automation, smart

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metering, IoT terminals, and medical electronics is generating sustained demand for low-power, small-density, long-retention non-volatile storage solutions, where the I?C interface remains attractive due to its simplicity, low cost, and strong noise immunity. Rising MCU and sensor shipments further support demand for standalone EEPROM paired with camera modules, display drivers, and power management units. Technological trends such as low-voltage operation, wide-temperature capability, AEC-Q100 qualification, and miniaturized packaging enhance product value and raise substitution barriers. With mature-node capacity stabilizing, cost structures are becoming more predictable, supporting sustainable profitability. Overall, this segment demonstrates characteristics of long lifecycle, steady growth, and high customer stickiness.

From the standpoint of market challenges, risks, and restraints, I?C Serial EEPROM is manufactured using mature processes with relatively limited technological differentiation, leading to intense price-based competition and margin pressure. Increasing integration of embedded EEPROM or Flash within MCUs, SoCs, and analog chips reduces the addressable market for standalone devices. In higher-density applications, SPI NOR Flash and low-density FRAM offer performance or endurance advantages, creating substitution risks. Fluctuations in wafer foundry capacity allocation, packaging costs, and raw material prices may introduce cyclical profitability impacts. Geopolitical tensions and trade uncertainties could also affect automotive qualification and supply chain stability. Although fabrication barriers are moderate, automotive certification cycles, long-term reliability validation, and customer qualification procedures create implicit entry barriers. In essence, the industry reflects the characteristics of a mature semiconductor niche market, with limited disruptive innovation potential and high requirements for scale and cost control.

From the perspective of downstream demand trends, the future structure of I?C Serial EEPROM demand is expected to show increasing automotive share, stable industrial demand, and differentiated consumer electronics demand. The number of memory nodes per vehicle continues to rise, particularly in electrified and intelligent vehicles, where each sensor module, camera unit, display panel, and power control subsystem may incorporate dedicated EEPROM for calibration data and device identification. Industrial control applications benefit from smart manufacturing upgrades and connectivity expansion, maintaining rigid demand for high-reliability storage. Communication equipment and network infrastructure continue to require storage for MAC addresses and module identification data. In consumer electronics, although some functions are absorbed by highly integrated chips, stable demand remains in camera modules, OLED display drivers, and touch modules. Future trends include higher

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adoption of 1.8V low-voltage products, growing demand for WLCSP packaging, support for faster I?C communication modes, and enhanced data protection features. Additionally, localization and supply chain security initiatives will support regional manufacturers. Overall, while not a high-growth explosive segment, the market maintains long-term stable growth with diversified applications and strong customer stickiness.

This report studies the global I?C Serial EEPROM production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for I?C Serial EEPROM and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of I?C Serial EEPROM that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global I?C Serial EEPROM total production and demand, 2021-2032, (K Units)

Global I?C Serial EEPROM total production value, 2021-2032, (USD Million)

Global I?C Serial EEPROM production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global I?C Serial EEPROM consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: I?C Serial EEPROM domestic production, consumption, key domestic manufacturers and share

Global I?C Serial EEPROM production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global I?C Serial EEPROM production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global I?C Serial EEPROM production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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This report profiles key players in the global I?C Serial EEPROM market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Microchip Technology Incorporated, STMicroelectronics, onsemi, Renesas Electronics Corporation, ROHM, MinebeaMitsumi, Puya Semiconductor, Giantec Semiconductor Corporation, Shanghai Fudan Microelectronics Group, ZettaDevice Electronics Technology, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World I?C Serial EEPROM market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global I?C Serial EEPROM Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Global I?C Serial EEPROM Market, Segmentation by Type:

Less Than 1 Mb

1 Mb - 2 Mb

Others

Global I?C Serial EEPROM Market, Segmentation by Operating Voltage Range:

1.7V–1.95V Low-Voltage I?C Serial EEPROM

2.5V–3.6V Standard Voltage I?C Serial EEPROM

4.5V–5.5V High-Voltage I?C Serial EEPROM

Wide-Voltage (1.7V–5.5V) I?C Serial EEPROM

Global I?C Serial EEPROM Market, Segmentation by Package Type:

SOIC Package I?C Serial EEPROM

TSSOP Package I?C Serial EEPROM

MSOP Package I?C Serial EEPROM

DFN Package I?C Serial EEPROM

WLCSP Package I?C Serial EEPROM

Global I?C Serial EEPROM Market, Segmentation by Memory Cell Structure:

Floating-Gate EEPROM

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Split-Gate EEPROM

Embedded EEPROM (eEEPROM)

High-Endurance EEPROM

Global I?C Serial EEPROM Market, Segmentation by Application:

Automotive

Consumer Electronics

Home Appliance

Industrial

Others

Companies Profiled:

Microchip Technology Incorporated

STMicroelectronics

onsemi

Renesas Electronics Corporation

ROHM

MinebeaMitsumi

Puya Semiconductor

Giantec Semiconductor Corporation

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Shanghai Fudan Microelectronics Group

ZettaDevice Electronics Technology

Teledyne Technologies

Fremont Micro Devices

Key Questions Answered:

1. How big is the global I?C Serial EEPROM market?
2. What is the demand of the global I?C Serial EEPROM market?
3. What is the year over year growth of the global I?C Serial EEPROM market?
4. What is the production and production value of the global I?C Serial EEPROM market?
5. Who are the key producers in the global I?C Serial EEPROM market?
6. What are the growth factors driving the market demand?

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