

# Global Industrial-grade Embedded MultiMediaCard (eMMC) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G5024A5EAD7BEN.html>

Date: July 2026

Pages: 157

Price: US\$ 3,480.00 (Single User License)

ID: G5024A5EAD7BEN

## Abstracts

According to our (Global Info Research) latest study, the global Industrial-grade Embedded MultiMediaCard (eMMC) market size was valued at US\$ 3164 million in 2025 and is forecast to a readjusted size of US\$ 4357 million by 2032 with a CAGR of 4.5% during review period.

Industrial-grade Embedded MultiMediaCard (eMMC) is a type of flash storage device specially designed for use in industrial applications, integrating NAND flash memory and a flash controller into a standard BGA package. Compared to standard (commercial) eMMC, industrial-grade versions are optimized for higher levels of reliability, durability, environmental adaptability, data security, and longer lifespan, making them suitable for applications in harsh environments. Industrial-grade eMMC typically provides enhanced shock resistance, wider temperature tolerance (typically -40°C to +85°C), and stronger vibration resistance, enabling reliable data storage in demanding conditions such as industrial automation, automotive electronics, medical equipment, aerospace, and smart hardware.

The upstream segment includes suppliers of NAND flash memory wafers, controller chips, DRAM cache, PCB substrates, passive components, and packaging/test services. The midstream segment encompasses multi-chip module design, stacking, packaging, firmware development, quality testing, and certification performed by specialized semiconductor manufacturers and industrial storage providers. Industrial-grade eMMC is categorized by storage capacity into 16GB, 32GB, 64GB, 128GB, and higher capacities; by NAND technology into TLC (mainstream for cost-efficiency), MLC (higher endurance), and pSLC (for maximum endurance applications). The downstream segment serves industrial automation systems, industrial PCs, medical devices,

automotive infotainment and telematics, rail transit equipment, power facilities, IoT edge devices, and aerospace applications.

The global average selling price for industrial-grade eMMC is approximately US\$7.50 per unit, with annual sales volume reaching approximately 410 million units in 2025. The industry maintains gross margins between 25% and 35%.

The global industrial-grade eMMC market is experiencing steady growth, driven by the accelerating adoption of Industry 4.0 and smart manufacturing, the proliferation of IoT and edge computing devices, and the increasing demand for reliable embedded storage in automotive and medical applications. As industrial systems generate ever-increasing volumes of data requiring local processing and storage, the need for durable, high-reliability embedded storage solutions continues to rise.

A notable trend reshaping the market is the significant gap between commercial and industrial-grade eMMC specifications. Industrial-grade products must meet stricter standards for temperature range, reliability, lifespan, and quality control compared to consumer-grade alternatives. Commercial eMMC typically operates within 0°C to 70°C and uses lower-endurance MLC/TLC NAND, while industrial-grade versions support -40°C to +85°C extended temperature ranges and incorporate advanced features such as controlled bill of materials, error checking and correction, defect management, and wear-leveling algorithms. For engineers designing long-lifecycle, data-intensive, or harsh-environment systems, industrial flash delivers the endurance, stability, and lifecycle consistency that commercial alternatives are not built to provide.

Another significant development is the tightening supply allocation for eMMC storage, particularly affecting automotive electronics and industrial systems. Manufacturers are prioritizing higher-margin products, creating allocation challenges for lower-priority embedded storage segments. Industrial applications face the highest supply risk heading into late 2026, driven by broader NAND flash memory supply discipline as manufacturers shift focus toward enterprise SSD and AI server markets. This supply pressure is accelerating the development and qualification of alternative suppliers, particularly from domestic Chinese manufacturers expanding their industrial-grade eMMC offerings.

This report is a detailed and comprehensive analysis for global Industrial-grade Embedded MultiMediaCard (eMMC) 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 Industrial-grade Embedded MultiMediaCard (eMMC) market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Industrial-grade Embedded MultiMediaCard (eMMC) 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 Industrial-grade Embedded MultiMediaCard (eMMC) 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 Industrial-grade Embedded MultiMediaCard (eMMC) 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 Industrial-grade Embedded MultiMediaCard (eMMC)

- 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 Industrial-grade Embedded MultiMediaCard (eMMC) 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 Samsung

Electronics Co., Ltd., SK Hynix Inc., Kioxia Corporation, Western Digital Corporation, Micron Technology, Inc., Kingston Technology Corporation, SanDisk (Western Digital), Phison Electronics Corporation, Silicon Motion Technology Corporation, ATP Electronics, Inc., etc.

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

## Market Segmentation

Industrial-grade Embedded MultiMediaCard (eMMC) 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

16GB

32GB

64GB

128GB

Above 128GB

### Market segment by NAND Technology

TLC (Triple-Level Cell)

MLC (Multi-Level Cell)

pSLC (Pseudo Single-Level Cell)

### Market segment by Operating Temperature

Commercial Grade (0°C to 70°C)

Industrial Grade (-40°C to 85°C)

Extended Grade (-40°C to 105°C)

#### Market segment by Application

Industrial Control

Automobile

Other

#### Major players covered

Samsung Electronics Co., Ltd.

SK Hynix Inc.

Kioxia Corporation

Western Digital Corporation

Micron Technology, Inc.

Kingston Technology Corporation

SanDisk (Western Digital)

Phison Electronics Corporation

Silicon Motion Technology Corporation

ATP Electronics, Inc.

Greenliant Systems

Flexxon

Swissbit AG

Apacer Technology Inc.

Transcend Information, Inc.

Intelligent Memory

Teledyne HiRel Semiconductors

Longsys Electronics Co., Ltd.

BIWIN Storage Technology Co., Ltd.

YEESTOR Microelectronics Co., Ltd.

SiliconGo (MK Founder)

Shenzhen Sinocode Technology Co., Ltd.

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 Industrial-grade Embedded MultiMediaCard (eMMC) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Industrial-grade Embedded MultiMediaCard (eMMC), with price, sales quantity, revenue, and global market share of Industrial-grade Embedded MultiMediaCard (eMMC) from 2021 to 2026.

Chapter 3, the Industrial-grade Embedded MultiMediaCard (eMMC) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Industrial-grade Embedded MultiMediaCard (eMMC) 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 Industrial-grade Embedded MultiMediaCard (eMMC) 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 Industrial-grade Embedded MultiMediaCard (eMMC).

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