

Global Embedded SSDs Market Growth 2025-2031

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Abstracts

The global Embedded SSDs market size is predicted to grow from US\$ 3512 million in 2025 to US\$ 5831 million in 2031; it is expected to grow at a CAGR of 8.8% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Embedded SSDs, or Solid - State Drives, are a type of storage device designed specifically for embedded systems. These systems are found in a wide range of applications, from industrial control units and medical devices to automotive infotainment systems. Unlike traditional hard disk drives (HDDs) which use spinning disks and mechanical read - write heads, embedded SSDs utilize flash memory technology. This gives them several advantages. They are more resistant to shock and vibration, which is crucial in environments where devices may be subject to movement or jolts, such as in vehicles. Embedded SSDs also offer faster data access times, allowing for quicker boot - up and faster operation of the embedded systems. They consume less power, which is beneficial for battery - powered devices and helps to reduce overall energy consumption in industrial settings. Their compact size makes them easy to integrate into the often - space - constrained designs of embedded systems, enabling manufacturers to create smaller and more efficient devices. However, they do have limitations, such as a finite number of write cycles, which can impact long - term reliability in some applications. Despite this, embedded SSDs have become an essential component in modern embedded systems, driving innovation and improving performance across multiple industries.

Asia-Pacific is currently the largest production market for embedded non-volatile memory, where Embedded SSDs are a key part, accounting for about 45% of the global

market share. North America and Europe together account for nearly 50% of the market share. The Chinese market has changed rapidly in the past few years and is expected to have a greater influence on the global market in the future.

The widespread use of connected devices and the Internet of Things requires robust storage solutions embedded in these devices to manage and process large amounts of data locally. Industries are embracing IoT technologies to improve efficiency and connectivity, so the demand for Embedded SSDs is increasing to meet the data storage needs of smart devices.

Progress in semiconductor technologies enables the development of smaller, faster, and more energy - efficient storage solutions, which can meet the growing demand for compact and powerful devices in various industries.

The rise of autonomous vehicles, smart appliances, and wearable devices drives the demand for storage solutions that can provide reliable performance in harsh operating environments while ensuring data security and integrity. Emerging applications such as augmented reality (AR), virtual reality (VR), and 5G connectivity also drive innovation, supporting high - bandwidth data transfer and low - latency processing, which opens up new growth areas for the Embedded SSD market.

LP Information, Inc. (LPI) ' newest research report, the “Embedded SSDs Industry Forecast” looks at past sales and reviews total world Embedded SSDs sales in 2024, providing a comprehensive analysis by region and market sector of projected Embedded SSDs sales for 2025 through 2031. With Embedded SSDs sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Embedded SSDs industry.

This Insight Report provides a comprehensive analysis of the global Embedded SSDs 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 Embedded SSDs portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Embedded SSDs market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Embedded SSDs 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 Embedded SSDs.

This report presents a comprehensive overview, market shares, and growth opportunities of Embedded SSDs market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

SATA - based Embedded SSDs

NVMe - based Embedded SSDs

eMMC Embedded SSDs

UFS Embedded SSDs

Segmentation by Application:

Industrial Automation

Medical

Automotive

Consumer Electronics

Aerospace and Defense

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

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.

Samsung

Western Digital

Kingston

Transcend

Kimtigo

BIWIN Storage Technology

Sony

Gigabyte

Advantech

Extreme Engineering Solutions

Cervoz

SMART Modular

Exascend

Phison Electronics

Viking Technology

ATP Electronics

Silicon Motion

KIOXIA Corporation

Greenliant

Sandisk

Tekdis

Key Questions Addressed in this Report

What is the 10-year outlook for the global Embedded SSDs market?

What factors are driving Embedded SSDs market growth, globally and by region?

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

How do Embedded SSDs market opportunities vary by end market size?

How does Embedded SSDs break out by Type, by Application?

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