

# 2020-2025 Global 3D NAND Flash Memory Market Report - Production and Consumption Professional Analysis (Impact of COVID-19)

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## Abstracts

3D NAND Flash is a type of flash memory which involves stacking memory cells on top of each other to provide a higher capacity/volume ratio in a smaller physical space. It maximizes electrical efficiency by shortening the interconnect length between cells. Samsung's 3D V-NAND was the first ever manufactured 3D NAND flash memory chip. The vertically stacked cell layers make use of charge trap flash (CTF) technology which enables it to offer memory of upto 128 GB on a chip. It has twice the write performance, twice the scalability and ten times the reliability of 2D, or planar NAND, which consequently improves the performance and stability of laptops, smart phones and tablets. 3D NAND chips are also used in Solid State Drives (SSDs) as they possess the characteristic of retaining data without power supply. The manufacturing process of 3D NAND is less complicated than that of alternative technologies, like RRAM, since it requires the same materials used to produce NAND, while FRAM, MRAM and RRAM and others require new materials that are not well explored and understood.

Additionally, they are incorporated in a wide range of consumer electronic products and enterprise applications.

This report elaborates the market size, market characteristics, and market growth of the 3D NAND Flash Memory industry, and breaks down according to the type, application, and consumption area of 3D NAND Flash Memory. The report also conducted a PESTEL analysis of the industry to study the main influencing factors and entry barriers of the industry.

In Chapter 3.4 of the report, the impact of the COVID-19 outbreak on the industry was fully assessed. Fully risk assessment and industry recommendations were made for 3D NAND Flash Memory in a special period. This chapter also compares the markets of Pre COVID-19 and Post COVID-19.

In addition, chapters 8-12 consider the impact of COVID-19 on the regional economy.

Key players in the global 3D NAND Flash Memory market covered in Chapter 13:

Microsemi Corporation  
Intel Corporation  
Sandforce  
Silicon Motion  
Sandisk Corporation  
Samsung Electronics  
SK Hynix Semiconductor  
Toshiba Corporation  
Advanced Micro Devices  
Greenliant Systems  
Micron Technology  
Silicon Storage Technology  
St Microelectronics

In Chapter 6, on the basis of types, the 3D NAND Flash Memory market from 2015 to 2025 is primarily split into:

Single-level cell (SLC)  
Multi-level cell (MLC)  
Triple-level cell (TLC)

In Chapter 7, on the basis of applications, the 3D NAND Flash Memory market from 2015 to 2025 covers:

Consumer electronics  
Medical equipment  
Automotive  
Others

Geographically, the detailed analysis of production, trade of the following countries is covered in Chapter 4.2, 5:

United States  
Europe  
China  
Japan  
India

Geographically, the detailed analysis of consumption, revenue, market share and growth rate of the following regions are covered in Chapter 8, 9, 10, 11, 12:

North America (Covered in Chapter 8)

United States

Canada

Mexico

Europe (Covered in Chapter 9)

Germany

UK

France

Italy

Spain

Others

Asia-Pacific (Covered in Chapter 10)

China

Japan

India

South Korea

Southeast Asia

Others

Middle East and Africa (Covered in Chapter 11)

Saudi Arabia

UAE

South Africa

Others

South America (Covered in Chapter 12)

Brazil

Others

Years considered for this report:

Historical Years: 2015-2019

Base Year: 2019

Estimated Year: 2020

Forecast Period: 2020-2025

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