

Global 3D XPoint Market Size study & Forecast, by Storage Type (750 GB, 1.5 TB, Other) By End User (Telecommunication, Consumer Electronics, Automotive, Healthcare, Retail, Other) and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/GE8723ED6A82EN.html>

Date: October 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GE8723ED6A82EN

Abstracts

Global 3D XPoint Market is valued approximately at USD xx billion in 2022 and is anticipated to grow with a healthy growth rate of more than xx% over the forecast period 2023-2030. 3D XPoint known as '3D crosspoint' is a non-volatile memory technology that offers high performance, endurance, and non-volatility. It is a type of phase-change memory (PCM) that operates by changing the resistance of a material between two states, which can be used to represent data. The 3D XPoint market is expanding because of factors such as increasing volume of data and rising demand for consumer electronics. Unlike traditional flash memory, which stores data in individual cells, 3D XPoint technology allows data to be stored at the intersection of perpendicular wires, forming a three-dimensional grid. This enables high-density data storage with faster read and write speeds. Its importance has progressively increased during the forecast period 2023-2030.

According to Statista, the total amount of data created, recorded, and copied around the world reached 64.2 zettabytes in 2020. Global data generation is expected to exceed 180 zettabytes by the year 2025. Furthermore, the global big data market is expected to reach USD 103 billion by 2027. Another important factor driving the 3D XPoint market is increasing demand for consumer electronics. As One potential application of 3D XPoint in consumer electronics could be in high-performance solid-state drives for gaming or professional workstations. The technology's fast read and write speeds, combined with its non-volatile nature, could provide improved storage performance and responsiveness for demanding applications. In addition, as per Statista, the global

consumer electronics market is estimated to expand by USD 125.5 billion in between year 2023 and 2028 and projected to reach up to approx. USD 1.2 trillion by 2028. Moreover, rapid urbanization and growing research and development in storage technologies is anticipated to create a lucrative growth opportunity for the market over the forecast period. However, high interface limitation and technical complexity stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global 3D XPoint Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the presence of a large number of established key players such as IM Flash, Intel Corporation, Micron Technology, Inc. in the region. Furthermore, Asia Pacific is expected to grow significantly during the forecast period, owing to factors such as growing demand for electronics with high processing capacity and increased urbanization in China, Japan, and India in the region.

Major market player included in this report are:

SK Hynix, Inc

Mushkin Inc

Toshiba Corp

Samsung Group

Micron Technology, Inc

Numonyx B.V

Intel Corporation

IM Flash

Western Digital Corp

Sandisk Corporation

Recent Developments in the Market:

In January 2023, Micron Technology, Inc. announced that the Micron 9400 NVMe™ SSD is now in volume production and is available immediately from channel partners and global OEM customers for use in servers requiring the highest levels of storage performance. The Micron 9400 is intended to handle the most demanding data centre tasks, notably those involving artificial intelligence (AI) training, machine learning (ML), and high-performance computing (HPC). The drive has an industry-leading storage capacity of 30.72 terabytes (TB), greater workload performance, and 77% faster input/output operations per second (IOPS).¹ The Micron 9400 is the world's fastest PCIe Gen4 data centre U.3 drive shipping², with consistently low latency across all capacity levels.

Global 3D XPoint Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Storage Type, End User, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Storage Type

750 GB

1.5 TB

Other

By End User

Telecommunication

Consumer Electronics

Automotive

Healthcare

Retail

Other

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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