

Global Next Generation Computing Market Size study & Forecast, by Component (Hardware, Software, Services) by Type (High-Performance Computing, Quantum Computing, Cloud Computing, Edge Computing, Others), by Deployment (Cloud, On-premise), by End-User (BFSI, IT & Telecom, Aerospace & Defense, Media & Entertainment, Manufacturing, Others), and Regional Analysis, 2022-2029

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Abstracts

Global Next Generation Computing Market is valued at approximately USD 96.2 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 19.1% over the forecast period 2022-2029. Next generation computing technology is fundamentally different in comparison to conventional and supercomputers. This technology is also known as high-performance computing and utilizes technologies based on quantum phenomena. It processes data using quantum bits, which is different from conventional computers. The growing need for on-premises next generation computing for businesses, growth in advancements in quantum computing technology and an increase in number of gaming industries implementing next-gen computing applications is expected to create lucrative opportunities in the market globally.

The increasing demand for quantum computing technology is a key driving factor for the global market growth. According to Statista, in 2020, the quantum computing market was estimated to worth around USD 410 million, which is projected to grow and likely to reach USD 8,600 million by 2027. Therefore, the adoption of quantum computing technology is likely to expand, which is further boosting the market demand in the global market. Furthermore, rising adoption of technologies such as AI, ML, and 5G, as well as

increasing Research and Development (R&D) activities in technology companies are presenting various growth prospects to the market over the forecasting years. However, dearth of skilled workforce and high operational challenges and issues regarding stability and error correction stifles market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Next Generation Computing Market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. North America dominated the market in terms of revenue, owing to the growing R&D expenditure, increasing investment in technological developments, and presence of key market players. Whereas, the Asia Pacific is expected to grow with the highest CAGR during the forecast period, owing to factors such as growing investments in next-generation computing technologies, as well as the rising need to process and manage large data volumes in the regional market.

Major market players included in this report are:

IBM Corporation

Google

Amazon Web Services, Inc.

Intel Corporation

Atos SE

Microsoft

Hewlett Packard Enterprise Development LP

NVIDIA Corporation

Cisco Systems Inc.

Advanced Micro Devices, Inc

Recent Developments in the Market:

In November 2021, IBM unveiled the introduction of Eagle- a 127-quantum bit processor. The processor is a specially designed to tap into the computational potential of devices using quantum physics. The primary objective of this initiative is to solve problems at new complexity levels.

Global Next Generation Computing Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

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

Segments Covered Component, Type, Deployment, End-User, Region
Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World
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 Component:

Hardware

Software

Services

By Type:

High-Performance Computing

Quantum Computing

Cloud Computing

Edge Computing

Others

By Deployment:

Cloud

On-premises

By End-User:

BFSI

IT & Telecom

Aerospace & Defense

Media & Entertainment

Manufacturing

Others

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
RoLA
Rest of the World

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