

# **Global AI in Networks Market Size Study, by Offering (Routers and Ethernet Switches, Software, AI-Networking Platform, Services), by Technology (Generative AI, Machine Learning, Deep Learning, Natural Language Processing, Others), by Deployment Mode (On-premises, Cloud-based), by Network Function (Network Optimization, Network Cybersecurity, Network Predictive Maintenance, Network Troubleshooting, Others), by End-Use Industry (Telecom Service Providers, Enterprises, Data Centers, Government, Other End-use Industry) and Regional Forecasts 2022-2032**

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## **Abstracts**

Global AI in Networks Market is estimated at USD 8.19 billion in 2023 and is projected to witness an extraordinary growth rate with a CAGR of 33.88% during the forecast period from 2024 to 2032. AI in Networks encompasses the integration of advanced artificial intelligence technologies within networking infrastructures, aimed at optimizing performance, enhancing security, and improving operational efficiency. This market is rapidly gaining traction as AI-driven solutions become indispensable for managing complex network systems, facilitating automated network management, traffic optimization, and predictive maintenance. As networks continue to expand and diversify, the demand for AI in networks is expected to soar, driven by the necessity for real-time insights, seamless connectivity, and robust cybersecurity.

The Global AI in Networks Market is fueled by increasing demand for automated network management solutions, the growing intricacy of modern networking systems, and the rising necessity for sophisticated cybersecurity protocols. Additionally, the evolution of 5G networks and the proliferation of IoT devices are further augmenting the market, as these advancements generate vast quantities of data requiring advanced AI technologies for effective management. However, challenges such as high implementation costs and the shortage of skilled professionals capable of deploying and managing AI-driven networks may pose significant barriers to market expansion.

The key regions considered for the market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, North America is expected to maintain its dominance in the AI in Networks market, supported by its advanced technological infrastructure, substantial investments in AI research, and the presence of major market players. Furthermore, the Asia-Pacific region is poised for the most rapid growth during the forecast period, propelled by accelerated digital transformation, the expansion of 5G networks, and supportive government initiatives promoting the development and adoption of AI and networking technologies.

Major market players included in this report are:

Hewlett Packard Enterprise Development LP

Arista Networks, Inc.

Juniper Networks, Inc.

Ciena Corporation

Extreme Networks

Fujitsu

Huawei Technologies Co., Ltd.

Nokia Corporation

VMware, Inc.

Fortinet, Inc.

The detailed segments and sub-segment of the market are explained below:

By Offering:

Routers and Ethernet Switches

Software

AI-Networking Platform

Services

By Technology:

Generative AI

Machine Learning

Deep Learning

Natural Language Processing (NLP)

Other Technologies

By Deployment Mode:

On-premises

Cloud-based

By Network Function:

Network Optimization

Network Cybersecurity

Network Predictive Maintenance

Network Troubleshooting

Others

#### By End-Use Industry:

Telecom Service Providers

Enterprises

Data Centers

Government

Other End-use Industry

#### 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

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market

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