

Global Artificial Intelligence Ai-Powered Edge Networking Market Forecast To Reach \$82.52 Billion By 2029 With 43.5%

*The Business Research Company's
Artificial Intelligence Ai-Powered Edge
Networking Global Market Report 2025 –
Market Size, Trends, And Forecast 2025-
2034*

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/EINPresswire.com/ -- The explosive

growth observed in recent years in the artificial intelligence AI-powered edge networking market is predicted to continue in the upcoming period. From \$13.55 billion in 2024, the market is slated to grow to \$19.49 billion in 2025 at a compound annual growth rate CAGR of 43.8%. Factors such as rising demand for low-latency processing, increase in adoption of IoT devices, growing AI-



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powered network automation, and the integration of 5G technology primarily fuel this growth. Additionally, the growing need for real-time data analytics accentuates this trend.

As we look towards the future, what can we expect from the AI-powered edge networking market?

The market is expected to witness an exhilarating acceleration, reaching \$82.52 billion by 2029 at a CAGR of 43.5%. Heightened integration of AI into edge computing, expansion of 5G networks, an increased demand for

autonomous systems, and the utilization of edge AI for cybersecurity are contributing to this forecasted growth. The adoption of real-time decision-making solution and the upcoming advancements in AI chips, network security solutions, edge AI-driven orchestration, edge-to-cloud integration, and real-time analytics capabilities are major trends anticipated to define this growth trajectory.

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What drives the ai-powered edge networking market growth?

One could indeed say that the current disruption in technology is driven by the adoption of 5G. As the fifth-generation wireless network technology capable of supporting advanced digital applications with ultra-fast speeds, low latency, and massive connectivity, there is an increasing demand for it. AI-powered edge networking acts as the intelligence at the edge of these 5G networks, enhancing speed, reliability, and smartness of connectivity. For example, in 2022, the GSM Association GSMA, a UK-based non-profit trade association, reported that 5G adoption in Europe accounted for 7.4% of total mobile connections, a significant upswing from 2.5% in 2021. This rising adoption of 5G technology undoubtedly propels the growth of the artificial intelligence AI-powered edge networking market.

Who are the key players driving this AI-powered edge networking market growth?

Prominent companies engaged in the AI-powered edge networking market include Huawei Technologies Co. Ltd., Intel Corporation, Cisco Systems Inc., Qualcomm Incorporated, Broadcom Inc., Hewlett Packard Enterprise Development LP, Fujitsu Limited, NVIDIA Corporation, Ericsson, Nokia Corporation, Marvell Technology Inc., Arista Networks Inc., Ciena Corporation, Extreme Networks Inc., Cloudflare Inc., ADLINK Technology Inc., Nexcom International Co. Ltd., EdgeConneX Inc., Versa Networks Inc., and Edgeworx Inc.

What are the emerging trends to watch for in the AI-powered edge networking market?

Major companies in this domain are keen on developing innovative solutions such as AI-native edge solutions. Such systems, armed with integrated artificial intelligence capabilities, facilitate real-time data processing and decision-making at the network edge, enhancing edge networking by offering low-latency performance, smart traffic handling, and reducing dependence on centralized cloud infrastructure. An instance of this is the secure AI-native edge solution launched by Juniper Networks, Inc., a global network products and services provider, in October 2024. This platform integrates networking and security operations using a single cloud and mist AI engine, simplifying configuration, management, and threat detection across various domains, and provides faster, more efficient security responses with better visibility and control.

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How is the ai-powered edge networking market segmented?

The AI-powered edge networking market can be broadly categorized into offerings and deployment types. The offerings include hardware such as high-performance processors, gateways, and routers; software and services. These enable local AI processing, reduce latency, enhance security, and support real-time decision-making. Deployment types can either be cloud-based or on-premise. Technologies used in AI-powered edge networking encompass generative artificial intelligence AI, machine learning, deep learning, and natural language processing. These technologies aid various network functions like network optimization, network cybersecurity,

network predictive maintenance, and network troubleshooting. Typical end-users of this technology include telecom service providers, enterprises, data centers, governments, and others.

So, which regions are leading the charge in the AI-powered edge networking market?

North America emerged as the leader in the AI-powered edge networking market in 2024, but the forecasts indicate that Asia-Pacific is the fastest-growing region in this market. The geographical regions covered in this report include Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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