

Ethernet Adapter Market Report and Forecast 2025-2034

Market Report | 2025-08-11 | 151 pages | EMR Inc.

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Report description:

The global ethernet adapter market attained a value of nearly USD 5.62 Billion in 2024. The market is further expected to grow in the forecast period of 2025-2034 at a CAGR of 33.50% to reach an estimated value of USD 101.05 Billion by 2034.

North America to be a Significant Market for Ethernet Adapter

North America has emerged as a significant market for the ethernet adapter industry due to the presence of a large number of major market players in the region. The introduction of favourable reimbursement and regulations, promoting the manufacturing industry, the regional market is being further propelled forward. Due to the growing number of smartphone users and the rising internet penetration in the Asia Pacific countries, the demand for ethernet adapters is expected to grow at a robust CAGR over the forecast period. The rising need for emerging technologies such as IoT, 5G, AI, and ML in the Asia Pacific is also projected to propel the regional market forward.

Increasing Demand from the Industrial End-Use Segment to Augment the Market Growth

The industrial end-use category dominates the global market for ethernet adapter. Growing government initiatives in emerging nations to encourage the adoption of industrial automation is contributing to the market's rise. The growing need for a multiprotocol environment is expected to catalyse the demand for ethernet adapter in the coming years as investors must choose the appropriate communication technology to navigate a multiprotocol environment in order to achieve rapid offering response times as well as high efficiency and dependability.

Ethernet Adapter: Definition and Segmentation

An ethernet adapter, also known as a network interface card (NIC), is a card that plugs into a motherboard slot and allows a computer to connect to an ethernet network (LAN). Ethernet is now incorporated into the chipsets on the motherboards of both desktop and laptop computers. Many manufacturing organisations utilise this to stabilise their supply chains on a large scale.

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Market Breakup by Type

- External
- Internal

Market Breakup by Interface Type

- PCIe
- OCP
- USB

Market Breakup by Port Configuration

- Single
- Dual
- Quad

Market Breakup by Data Rate Per Port

- Up to 1 GbE
- 10 GbE
- 25 GbE
- 40 GbE
- 50 GbE
- 100 GbE
- 200 GbE

Market Breakup by Application

- Servers
- Embedded Systems
- Consumer Applications
- Routers and Switches
- Desktop Systems
- Others

Market Breakup by End Use

- Residential
- Industrial
- Commercial

Market Breakup by Region

- North America
- Europe

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- Asia Pacific
- Latin America
- Middle East and Africa

Increasing Demand for Scalable and Reliable Communication Protocols to Bolster the Growth of the Global Ethernet Adapter Industry

Due to an increase in demand for greater bandwidth connections for communication protocols that are scalable, rapid, reliable, and interoperable, the ethernet adapter industry is likely to grow during the forecast period. The market is also projected to be fuelled by the growing number of data centres being built. Furthermore, the market growth is projected to be catalysed by the product's capability to reduce external interference and the risk of a security breach to a minimum. The market is expected to be given a further impetus for its growth by drivers such as the increasing usage of internet of things (IoT) devices and the growing internet penetration, particularly in emerging nations.

During the COVID-19 epidemic, ethernet adapters have become increasingly important since they not only speed up healthcare and scientific research but also make online learning more accessible. As major industries witnessed increased digitisation of their functions, the demand for ethernet adapter also received a boost. The shift towards greater automation and digitisation is expected to persist post-pandemic and is projected to drive the demand for ethernet adapters.

Key Industry Players in the Global Ethernet Adapter Market

The report presents a detailed analysis of the following key players in the global ethernet adapter market, looking into their capacity, market shares, and latest developments like capacity expansions, plant turnarounds, and mergers and acquisitions:

- Anker Technology (UK) Ltd.
- Belkin International, Inc
- Broadcom Inc.
- Plugable Technologies
- Intel Corporation
- Others

The comprehensive report looks into the macro and micro aspects of the industry. The EMR report gives an in-depth insight into the market by providing a SWOT analysis as well as an analysis of Porter's Five Forces model.

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