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Global Ethernet Controller Market by Function (PHY and Integrated), By Bandwidth (Ethernet, Fast Ethernet and Gigabit Ethernet Installations), By Packaging (Flip-chips, and Grid Arrays, Quad Flat No-Lead (QFN), Quad Flat Package (QFP) and Others), By Application (Servers, Embedded Systems, Consumer Applications, Routers and Switches, Desktop Systems and Others) and By Region (North America, Europe, Asia Pacific, South America, and Middle East & Africa)

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Abstracts

Global Ethernet Controller market anticipated driving due to its functions such as controlling the connection to wired networks and managing Internet connections.

The global ethernet controller market generated USD 9.69 Billion in 2019 and projected to reach USD 15.01 Billion by 2027, registering a CAGR of 5.45% during the forecast 2020-2027. It is primarily attributed to the growing usages for the ethernet controller in escalating data demand, which are impacting the automobiles sector with advanced features such as Advanced Driver Assistance Systems and multimedia-rich infotainment systems. Additionally, the surge in demand of the ethernet controller for providing low-cost bandwidth, higher rates of data transfer, and connecting the carrier's backbone projected to trigger the growth of the ethernet controller market size. Moreover, technological advancements in ethernet controllers such as providing and managing advanced features including, the ability to communicate from the computer to any specific device through software driver, will accelerate the global ethernet controller industry in the future period.

Increasing demand for the ethernet controller in industrial, infrastructure, and consumer applications demand solving ever-increasing bandwidth utilization. Also, huge demand for autonomous driving in developing and developed nations will require multiple streams of data from cameras, sensors, and radars are transferred and processed in real-time. These factors are leading to an exponential growth in in-vehicle data traffic. The upsurge in usages of ethernet controller to optimize performance, reduce latency, offload software tasks, and helps to provide AVB support, with up to 16 prioritized queues of traffic, are projected to trigger the ethernet controller industry worldwide. Ethernet controller provides an internal DMA module for fast data throughput and hardware-assisted checksum calculation, which used in various network protocols.

Function Overview in the Global Ethernet Controller Market

Based on function, the global ethernet controller market classified into PHY and Integrated. The PHY will be the fastest-growing segment in the forecast period. It is attributable to PHY help designers to maximize data transmission for Industry 4.0 systems and address the growing data transmission needs in automobiles.

Bandwidth Overview in the Global Ethernet Controller market

Based on bandwidth, the global ethernet controller market segregated into Ethernet, Fast Ethernet, and Gigabit Ethernet Installations. The Fast Ethernet segment held for the highest revenue in 2019 due to its help in transfer data at a rate of 100 Mbps using a twisted-pair cable or a fiber-optic cable. It is based on the CSMA/CD Media Access Control (MAC) protocol and uses existing 10BaseT cabling.

Packaging Overview in the Global Ethernet Controller Market

Based on packaging, the global ethernet controller market categorized into Flip-chips, and Grid Arrays, Quad Flat No-Lead (QFN), Quad Flat Package (QFP), and others. The Flip-chips and Grid Arrays segment accounted for a larger market share in 2019 and projected to lead the market by 2027. It is due to flip chips provides smaller assembly in comparison with the traditional carrier-based system, and grid arrays have a lower thermal resistance between the package and the PCB, which help in ease of heat dissipation from ICs to PCBs.

Application Overview in the Global Ethernet Controller Market

Based on application, the global ethernet controller market categorized into Servers,

Embedded Systems, Consumer Applications, Routers and Switches, Desktop Systems, and Other. The consumer segment generated the largest revenue in 2019, on account of growing usages of ethernet controller in the smart home, connecting a wide range of devices from IoT broadband gateways, wireless routers, Set-Top Boxes (STB) and Over-The-Top (OTT) streaming media players.

Regional Overview in the Global Ethernet Controller Market

By geography, the global ethernet controller market segmented into North America, Europe, Asia Pacific, South America, and Middle East & Africa. The Asia Pacific accounted for maximum revenue share in 2019, owing to the development of the IoT industry and rapid modernization in these regions. Additionally, the growing demand for the industrial automation solution and the rising popularity of the ethernet controller in consumer electronics.

Global Ethernet Controller Market: Competitive Landscape

Companies such as

- Intel
- Broadcom
- Microchip
- Cirrus Logic
- Texas Instruments
- Silicon Laboratories
- DAVICOM
- Marvell
- Renesas Electronics Corporation
- OMRON Corporation

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Silicon Laboratories Inc.

Microsemi

Mindspeed Technologies Inc

Realtekare

And other prominent Players

are the key players in the global ethernet controller market.

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