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Global On-board Ethernet Physical Layer Chip Market Growth 2026-2032

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Abstracts

The global On-board Ethernet Physical Layer Chip market size is predicted to grow from US$ 868 million in 2025 to US$ 1708 million in 2032; it is expected to grow at a CAGR of 10.4% from 2026 to 2032.

On-board Ethernet can not only support higher rate transmission, but also have large bandwidth, low delay and low electromagnetic interference

Disturbance and other advantages, as well as the normalization of the link connection form, reduce the vehicle link type and cost, and can be widely used in entertainment, ADAS, Internet of Vehicles and other systems. Therefore, on-board Ethernet is expected to gradually replace the traditional bus technology and become the next generation of on-board network architecture.

Ethernet circuit interface is mainly composed of data link layer (MAC) and physical layer (PHY). At present, most of the automotive processors have included MAC control, while Ethernet physical layer chip (PHY) is used as an independent chip to provide Ethernet access channel, which plays the role of connecting the processor and communication media.

The global market for semiconductor was estimated at US$ 579 billion in the year 2022, is projected to US$ 790 billion by 2029, growing at a CAGR of 6% during the forecast period. Although some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.76%, Sensor with 16.31%, and Logic with 14.46% growth, Memory declined with 12.64% year over year. The microprocessor (MPU) and microcontroller (MCU) segments will experience stagnant growth due to weak shipments and investment in notebooks, computers, and standard desktops. In the

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current market scenario, the growing popularity of IoT-based electronics is stimulating the need for powerful processors and controllers. Hybrid MPUs and MCUs provide real-time embedded processing and control for the topmost IoT-based applications, resulting in significant market growth. The Analog IC segment is expected to grow gradually, while demand from the networking and communications industries is limited. Few of the emerging trends in the growing demand for Analog integrated circuits include signal conversion, automotive-specific Analog applications, and power management. They drive the growing demand for discrete power devices.

LP Information, Inc. (LPI) ' newest research report, the ?On-board Ethernet Physical Layer Chip Industry Forecast? looks at past sales and reviews total world On-board Ethernet Physical Layer Chip sales in 2025, providing a comprehensive analysis by region and market sector of projected On-board Ethernet Physical Layer Chip sales for 2026 through 2032. With On-board Ethernet Physical Layer Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world On-board Ethernet Physical Layer Chip industry.

This Insight Report provides a comprehensive analysis of the global On-board Ethernet Physical Layer Chip landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on On-board Ethernet Physical Layer Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global On-board Ethernet Physical Layer Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for On-board Ethernet Physical Layer Chip and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global On-board Ethernet Physical Layer Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of On-board Ethernet Physical Layer Chip market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

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5 GE

Segmentation by Application:

Passenger Cars

Commercial Vehicles

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

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France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Marvell

Broadcom Inc

Realtek Semiconductor Corp

Texas Instruments

NXP Semiconductors

Motorcomm Electronic

JLSemi

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Key Questions Addressed in this Report

What is the 10-year outlook for the global On-board Ethernet Physical Layer Chip market?

What factors are driving On-board Ethernet Physical Layer Chip market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do On-board Ethernet Physical Layer Chip market opportunities vary by end market size?

How does On-board Ethernet Physical Layer Chip break out by Type, by Application?

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