

Global Automotive-grade Gigabit Ethernet TSN Switch Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Automotive-grade Gigabit Ethernet TSN Switch market size was valued at US\$ 113 million in 2025 and is forecast to a readjusted size of US\$ 371 million by 2032 with a CAGR of 18.6% during review period.

Automotive-grade Gigabit Ethernet TSN Switch is a vehicle-qualified Ethernet switching chip that integrates gigabit switching capacity with time-sensitive networking functions, focusing on deterministic latency, time synchronization, priority traffic scheduling, electromagnetic compatibility, functional safety readiness, wide-temperature reliability, and long lifecycle supply. Compared with a general automotive gigabit Ethernet TSN switch, this product definition places greater emphasis on automotive-grade validation and stable operation under complex vehicle environments, supporting real-time data exchange among zonal controllers, gateways, domain controllers, smart cockpit systems, body control units, powertrain systems, and assisted driving modules. The upstream primarily comprises silicon wafers and wafer materials, packaging and test consumables, and high-precision semiconductor fabrication equipment such as lithography, etch, and ion implantation systems, with representative suppliers including SUMCO, GlobalWafers, Shin-Etsu, and Shanghai Silicon Industry Group, and equipment and materials suppliers such as ASML, Applied Materials, Lam Research, Amkor, and AMEC. The midstream focuses on automotive-grade chip architecture design, gigabit switch pipeline implementation, time-aware scheduling unit development, firmware and driver integration, functional safety adaptation, electromagnetic compatibility validation, reliability testing, and interoperability verification, with emphasis on deterministic low latency, stable multi-node communication, vehicle-level robustness, software support, and system integration

capability. Downstream, Automotive-grade Gigabit Ethernet TSN Switch is mainly used in passenger cars and commercial vehicles, supporting in-vehicle Ethernet backbones, zonal architectures, gateway systems, smart cockpit communication, assisted driving data links, and real-time control networks, with representative customers including Toyota, Volkswagen, BYD, and Geely. In 2025, production was 10 million units and the average price was USD 11 per unit. The industry's capacity utilization rate in 2025 was about 70%, and the average gross margin was around 50%.

Automotive-grade Gigabit Ethernet TSN Switch demand will be increasingly tied to how OEMs redesign vehicle networks around centralized computing and zonal control. Passenger cars require stable gigabit communication between cockpit, gateway, body, and assisted driving domains, where timing certainty is becoming as important as bandwidth. Commercial vehicles add tougher operating conditions, longer service cycles, and stronger requirements for safety monitoring and fleet connectivity. As architectures become more software-defined, chip evaluation will shift toward automotive-grade reliability, deterministic scheduling, thermal endurance, electromagnetic robustness, driver support, security readiness, and proven supply continuity.

This report is a detailed and comprehensive analysis for global Automotive-grade Gigabit Ethernet TSN Switch market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Automotive-grade Gigabit Ethernet TSN Switch market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-grade Gigabit Ethernet TSN Switch market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-grade Gigabit Ethernet TSN Switch market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units),

and average selling prices (US\$/Unit), 2021-2032

Global Automotive-grade Gigabit Ethernet TSN Switch market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Automotive-grade Gigabit Ethernet TSN Switch

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive-grade Gigabit Ethernet TSN Switch market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Broadcom (USA), Marvell (USA), Infineon Technologies (Germany), NXP (Netherlands), Microchip (USA), Analog Devices (USA), Realtek Semiconductor (Taiwan), Toshiba (Japan), Texas Instruments (USA), Hilscher (Germany), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Automotive-grade Gigabit Ethernet TSN Switch market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

IEEE 802.1AS

IEEE 802.1Qbv

IEEE 802.1Qbu

Others

Market segment by Package

QFN

LQFP/TQFP

Others

Market segment by Port Count

4 Ports

8 Ports

16 Ports

Others

Market segment by Application

Passenger Cars

Commercial Vehicle

Major players covered

Broadcom (USA)

Marvell (USA)

Infineon Technologies (Germany)

NXP (Netherlands)

Microchip (USA)

Analog Devices (USA)

Realtek Semiconductor (Taiwan)

Toshiba (Japan)

Texas Instruments (USA)

Hilscher (Germany)

Dongtu Technology (China)

NetForward Microelectronics (China)

Centec Communications (China)

Kungao Microelectronics (China)

Motorcomm Electronic Technology (China)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automotive-grade Gigabit Ethernet TSN Switch product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive-grade Gigabit Ethernet TSN Switch, with price, sales quantity, revenue, and global market share of Automotive-grade Gigabit Ethernet TSN Switch from 2021 to 2026.

Chapter 3, the Automotive-grade Gigabit Ethernet TSN Switch competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive-grade Gigabit Ethernet TSN Switch breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Automotive-grade Gigabit Ethernet TSN Switch market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive-grade Gigabit Ethernet TSN Switch.

Chapter 14 and 15, to describe Automotive-grade Gigabit Ethernet TSN Switch sales channel, distributors, customers, research findings and conclusion.

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