

Global L3 Autonomous Driving Domain Controller Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G4CCF0F89B44EN.html>

Date: September 2026

Pages: 130

Price: US\$ 4,480.00 (Single User License)

ID: G4CCF0F89B44EN

Abstracts

The global L3 Autonomous Driving Domain Controller market size is expected to reach \$ 13731 million by 2032, rising at a market growth of 16.6% CAGR during the forecast period (2026-2032).

In 2025, global L3 Autonomous Driving Domain Controller production reached approximately 5 million units, with an average global market price of around USD 900 per unit.

The gross profit margin of major companies in the industry was approximately 25%–45%.

In 2025, global production capacity was approximately 6.5 million units.

An L3 Autonomous Driving Domain Controller is a centralized automotive computing platform that processes data from cameras, radar, LiDAR, ultrasonic sensors, and vehicle networks to support conditional automated driving. It integrates high-performance processors, memory, interfaces, safety mechanisms, operating software, and perception and planning functions. The scope excludes L2-only controllers, individual sensors, cockpit controllers, vehicle central computers without autonomous-driving functions, complete autonomous-driving systems, and software sold separately.

The industrial chain includes upstream automotive processors, memory, interface chips, PCBs, connectors, power modules, thermal components, and software tools. Midstream covers hardware design, PCB assembly, algorithm integration, functional-safety development, cybersecurity, calibration, validation, and vehicle certification. Downstream applications include passenger cars, commercial vehicles, robotaxis,

autonomous shuttles, and intelligent vehicle platforms supporting L3 functions.

Report Scope

This report studies the global L3 Autonomous Driving Domain Controller production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for L3 Autonomous Driving Domain Controller and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of L3 Autonomous Driving Domain Controller that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global L3 Autonomous Driving Domain Controller total production and demand, 2021-2032, (K Units)

Global L3 Autonomous Driving Domain Controller total production value, 2021-2032, (USD Million)

Global L3 Autonomous Driving Domain Controller production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global L3 Autonomous Driving Domain Controller consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: L3 Autonomous Driving Domain Controller domestic production, consumption, key domestic manufacturers and share

Global L3 Autonomous Driving Domain Controller production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global L3 Autonomous Driving Domain Controller production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global L3 Autonomous Driving Domain Controller production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global L3 Autonomous Driving Domain Controller market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Robert Bosch GmbH, Continental AG, ZF Friedrichshafen AG, Aptiv PLC, Valeo SE, Denso Corporation, Magna International Inc., Mobileye Global Inc., Huawei Technologies Co., Ltd., Huizhou Desay SV Automotive Co., Ltd., etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World L3 Autonomous Driving Domain Controller market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global L3 Autonomous Driving Domain Controller Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global L3 Autonomous Driving Domain Controller Market, Segmentation by Type:

CPU–GPU Architecture

CPU–AI Accelerator Architecture

Heterogeneous Multi-chip Architecture

Global L3 Autonomous Driving Domain Controller Market, Segmentation by System Integration:

Standalone Domain Controllers

Centralized Cross-domain Controllers

Vehicle Central Computing Controllers

Global L3 Autonomous Driving Domain Controller Market, Segmentation by Computing Performance:

Entry-level(<100 TOPS)

High-performance(>100–500 TOPS)

Ultra-high-performance(>500 TOPS)

Global L3 Autonomous Driving Domain Controller Market, Segmentation by Application:

Passenger Cars

Commercial Vehicles

Purpose-built Autonomous Vehicles

Other

Companies Profiled:

Robert Bosch GmbH

Continental AG

ZF Friedrichshafen AG

Aptiv PLC

Valeo SE

Denso Corporation

Magna International Inc.

Mobileye Global Inc.

Huawei Technologies Co., Ltd.

Huizhou Desay SV Automotive Co., Ltd.

Beijing Jingwei Hirain Technologies Co., Inc.

Neusoft Reach Automotive Technology Co., Ltd.

Shanghai Enjoy Move Technology Co., Ltd.

Key Questions Answered:

1. How big is the global L3 Autonomous Driving Domain Controller market?
2. What is the demand of the global L3 Autonomous Driving Domain Controller market?
3. What is the year over year growth of the global L3 Autonomous Driving Domain Controller market?
4. What is the production and production value of the global L3 Autonomous Driving Domain Controller market?
5. Who are the key producers in the global L3 Autonomous Driving Domain Controller market?
6. What are the growth factors driving the market demand?

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