

Global Low-compute Driving-parking Integrated Domain Controller 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 Low-compute Driving-parking Integrated Domain Controller market size was valued at US\$ 1338 million in 2025 and is forecast to a readjusted size of US\$ 4278 million by 2032 with a CAGR of 18.1% during review period.

Low-compute Driving-parking Integrated Domain Controller is a cost-oriented in-vehicle control unit designed for entry-level and mainstream assisted driving and parking functions, integrating moderate computing chips, sensor processing, perception fusion, driving-assistance decision logic, parking control, vehicle control, and in-vehicle communication into one domain-controller platform. Compared with an intelligent driving ADAS domain controller, this product definition emphasizes lower computing power, higher cost efficiency, mature function coverage, simplified sensor configuration, stable mass-production deployment, and support for lane assistance, adaptive cruise, automatic parking, low-speed maneuvering, and basic driving-parking integration scenarios. In 2025, production was 6.5 million units and the average price was USD 200 per unit. The industry's capacity utilization rate in 2025 was about 68%, and the average gross margin was around 23%. Upstream, the key components mainly include computing chips, memory chips, PMIC power management chips, and Ethernet switch chips, with representative suppliers such as Horizon Robotics, SemiDrive, and Micron Technology providing core computing, processing, and storage components. The midstream segment focuses on domain controller hardware design, low-compute platform configuration, sensor interface integration, perception algorithm adaptation, driving-parking algorithm calibration, in-vehicle communication design, thermal management, functional safety validation, software calibration, system testing, and vehicle-level integration, which together determine cost efficiency, control stability,

perception reliability, software scalability, safety performance, and mass-production competitiveness. Downstream, Low-compute Driving-parking Integrated Domain Controller is mainly used in passenger cars and commercial vehicles, helping vehicle platforms integrate basic assisted driving and parking functions into a centralized control architecture, with representative customers including Toyota, Volkswagen, and BYD.

Low-compute Driving-parking Integrated Domain Controllers are more closely aligned with the volume market than high-compute solutions. Their key value is not to pursue the highest level of automation, but to bring lane assistance, adaptive cruise, automatic parking, and low-speed maneuvering into ordinary passenger cars at a controllable hardware cost. For automakers, this type of controller reduces system cost, simplifies sensor configuration, and shortens vehicle-platform adaptation cycles, making assisted driving easier to standardize across entry-level and mid-range models. In commercial vehicles, the same cost advantage supports basic safety assistance and parking convenience without heavy computing investment.

This report is a detailed and comprehensive analysis for global Low-compute Driving-parking Integrated Domain Controller 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 Low-compute Driving-parking Integrated Domain Controller market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Low-compute Driving-parking Integrated Domain Controller market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Low-compute Driving-parking Integrated Domain Controller market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Low-compute Driving-parking Integrated Domain Controller market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Low-compute Driving-parking Integrated Domain Controller

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 Low-compute Driving-parking Integrated Domain Controller 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 Bosch (Germany), Huawei (China), Valeo (France), Desay SV (China), Neusoft Reach (China), Foryou Corporation (China), Jingwei Hiain (China), iMotion Automotive Technology (China), Joyson Electronics (China), etc.

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

Market Segmentation

Low-compute Driving-parking Integrated Domain Controller 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

Entry-Level L2 Domain Controller

Highway NOA Domain Controller

Market segment by Computing Power

Computing Power?50TOPS

50TOPS

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