

Global AI Computing 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 AI Computing Driving-parking Integrated Domain Controller market size was valued at US\$ 2404 million in 2025 and is forecast to a readjusted size of US\$ 7503 million by 2032 with a CAGR of 17.6% during review period.

AI Computing Driving-parking Integrated Domain Controller is an automotive control unit that uses an AI computing platform to integrate assisted driving, automated parking, perception fusion, decision-making, vehicle control, and in-vehicle communication on one domain-controller architecture. Compared with an L2 driving-parking integrated domain controller, this product definition places greater emphasis on AI inference capability, multi-sensor data processing, algorithm scalability, real-time perception, parking path planning, and computing-resource allocation, enabling vehicle platforms to support lane keeping, adaptive cruise, automatic parking, memory parking, low-speed maneuvering, and broader driving-assistance scenarios with higher software flexibility. In 2025, production was 7.3 million units and the average price was USD 320 per unit. The industry's capacity utilization rate in 2025 was about 65%, and the average gross margin was around 26%. Upstream, the key components mainly include high-computing automotive-grade SoC 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, AI computing platform configuration, sensor interface integration, perception algorithm deployment, parking algorithm calibration, vehicle communication design, thermal management, functional safety validation, software calibration, system testing, and vehicle-level integration, which together determine computing efficiency, perception

accuracy, control stability, safety reliability, software scalability, and cost competitiveness. Downstream, AI Computing Driving-parking Integrated Domain Controller is mainly used in passenger cars and commercial vehicles, helping vehicle platforms integrate assisted driving and parking functions into a unified AI computing and control architecture, with representative customers including Toyota, Volkswagen, and BYD.

AI Computing Driving-parking Integrated Domain Controllers will gain relevance as automakers move from function stacking to computing-platform integration. Passenger cars increasingly need one controller to process camera, radar, ultrasonic, and map-related data for lane assistance, adaptive cruise, automatic parking, memory parking, and low-speed maneuvering. Commercial vehicles add demand in depot operation, blind-spot monitoring, fleet safety, and assisted parking under complex working conditions. The key industry shift is that software capability is becoming as important as hardware cost. Suppliers will compete on AI computing efficiency, sensor fusion accuracy, algorithm upgradeability, thermal design, functional safety, and platform reuse across vehicle models.

This report is a detailed and comprehensive analysis for global AI Computing 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 AI Computing 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 AI Computing 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 AI Computing 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 AI Computing 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 AI Computing 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 AI Computing 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 Continental/Aumovio (Germany), Bosch (Germany), Huawei (China), Aptiv (USA), Valeo (France), Desay SV (China), Neusoft Reach (China), Foryou Corporation (China), Jingwei Hiain (China), iMotion Automotive Technology (China), etc.

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

Market Segmentation

AI Computing 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 Domain Controller

Highway NOA Domain Controller

Urban NOA Domain Controller

Others

Market segment by Computing Power

Computing Power?50TOPS

50TOPS

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global AI Computing Driving-parking Integrated Domain Controller Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Entry-Level Domain Controller

1.3.3 Highway NOA Domain Controller

1.3.4 Urban NOA Domain Controller

1.3.5 Others

1.4 Market Analysis by Computing Power

1.4.1 Overview: Global AI Computing Driving-parking Integrated Domain Controller Consumption Value by Computing Power: 2021 Versus 2025 Versus 2032

1.4.2 Computing Power?50TOPS

1.4.3 50TOPS

List Of Tables

LIST OF TABLES

- Table 1. Global AI Computing Driving-parking Integrated Domain Controller Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global AI Computing Driving-parking Integrated Domain Controller Consumption Value by Computing Power, (USD Million), 2021 & 2025 & 2032
- Table 3. Global AI Computing Driving-parking Integrated Domain Controller Consumption Value by Power Consumption, (USD Million), 2021 & 2025 & 2032
- Table 4. Global AI Computing Driving-parking Integrated Domain Controller Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 5. Continental/Aumovio (Germany) Basic Information, Manufacturing Base and Competitors
- Table 6. Continental/Aumovio (Germany) Major Business
- Table 7. Continental/Aumovio (Germany) AI Computing Driving-parking Integrated Domain Controller Product and Services
- Table 8. Continental/Aumovio (Germany) AI Computing Driving-parking Integrated Domain Controller Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 9. Continental/Aumovio (Germany) Recent Developments/Updates
- Table 10. Bosch (Germany) Basic Information, Manufacturing Base and Competitors
- Table 11. Bosch (Germany) Major Business
- Table 12. Bosch (Germany) AI Computing Driving-parking Integrated Domain Controller Product and Services
- Table 13. Bosch (Germany) AI Computing Driving-parking Integrated Domain Controller Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 14. Bosch (Germany) Recent Developments/Updates
- Table 15. Huawei (China) Basic Information, Manufacturing Base and Competitors
- Table 16. Huawei (China) Major Business
- Table 17. Huawei (China) AI Computing Driving-parking Integrated Domain Controller Product and Services
- Table 18. Huawei (China) AI Computing Driving-parking Integrated Domain Controller Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 19. Huawei (China) Recent Developments/Updates
- Table 20. Aptiv (USA) Basic Information, Manufacturing Base and Competitors
- Table 21. Aptiv (USA) Major Business

Table 22. Aptiv (USA) AI Computing Driving-parking Integrated Domain Controller Product and Services

Table 23. Aptiv (USA) AI Computing Driving-parking Integrated Domain Controller Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Aptiv (USA) Recent Developments/Updates

Table 25. Valeo (France) Basic Information, Manufacturing Base and Competitors

Table 26. Valeo (France) Major Business

Table 27. Valeo (France) AI Computing Driving-parking Integrated Domain Controller Product and Services

Table 28. Valeo (France) AI Computing Driving-parking Integrated Domain Controller Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Valeo (France) Recent Developments/Updates

Table 30. Desay SV (China) Basic Information, Manufacturing Base and Competitors

Table 31. Desay SV (China) Major Business

Table 32. Desay SV (China) AI Computing Driving-parking Integrated Domain Controller Product and Services

Table 33. Desay SV (China) AI Computing Driving-parking Integrated Domain Controller Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Desay SV (China) Recent Developments/Updates

Table 35. Neusoft Reach (China) Basic Information, Manufacturing Base and Competitors

Table 36. Neusoft Reach (China) Major Business

Table 37. Neusoft Reach (China) AI Computing Driving-parking Integrated Domain Controller Product and Services

Table 38. Neusoft Reach (China) AI Computing Driving-parking Integrated Domain Controller Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Neusoft Reach (China) Recent Developments/Updates

Table 40. Foryou Corporation (China) Basic Information, Manufacturing Base and Competitors

Table 41. Foryou Corporation (China) Major Business

Table 42. Foryou Corporation (China) AI Computing Driving-parking Integrated Domain Controller Product and Services

Table 43. Foryou Corporation (China) AI Computing Driving-parking Integrated Domain Controller Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Foryou Corporation (China) Recent Developments/Updates
Table 45. Jingwei Hiain (China) Basic Information, Manufacturing Base and Competitors
Table 46. Jingwei Hiain (China) Major Business
Table 47. Jingwei Hiain (China) AI Computing Driving-parking Integrated Domain Controller Product and Services
Table 48. Jingwei Hiain (China) AI Computing Driving-parking Integrated Domain Controller Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 49. Jingwei Hiain (China) Recent Developments/Updates
Table 50. iMotion Automotive Technology (China) Basic Information, Manufacturing Base and Competitors
Table 51. iMotion Automotive Technology (China) Major Business
Table 52. iMotion Automotive Technology (China) AI Computing Driving-parking Integrated Domain Controller Product and Services
Table 53. iMotion Automotive Technology (China) AI Computing Driving-parking Integrated Domain Controller Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 54. iMotion Automotive Technology (China) Recent Developments/Updates
Table 55. Joyson Electronics (China) Basic Information, Manufacturing Base and Competitors
Table 56. Joyson Electronics (China) Major Business
Table 57. Joyson Electronics (China) AI Computing Driving-parking Integrated Domain Controller Product and Services
Table 58. Joyson Electronics (China) AI Computing Driving-parking Integrated Domain Controller Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 59. Joyson Electronics (China) Recent Developments/Updates
Table 60. Magna (Canada) Basic Information, Manufacturing Base and Competitors
Table 61. Magna (Canada) Major Business
Table 62. Magna (Canada) AI Computing Driving-parking Integrated Domain Controller Product and Services
Table 63. Magna (Canada) AI Computing Driving-parking Integrated Domain Controller Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 64. Magna (Canada) Recent Developments/Updates
Table 65. Global AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Manufacturer (2021-2026) & (K Units)
Table 66. Global AI Computing Driving-parking Integrated Domain Controller Revenue by Manufacturer (2021-2026) & (USD Million)

Table 67. Global AI Computing Driving-parking Integrated Domain Controller Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 68. Market Position of Manufacturers in AI Computing Driving-parking Integrated Domain Controller, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 69. Head Office and AI Computing Driving-parking Integrated Domain Controller Production Site of Key Manufacturer

Table 70. AI Computing Driving-parking Integrated Domain Controller Market: Company Product Type Footprint

Table 71. AI Computing Driving-parking Integrated Domain Controller Market: Company Product Application Footprint

Table 72. AI Computing Driving-parking Integrated Domain Controller New Market Entrants and Barriers to Market Entry

Table 73. AI Computing Driving-parking Integrated Domain Controller Mergers, Acquisition, Agreements, and Collaborations

Table 74. Global AI Computing Driving-parking Integrated Domain Controller Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 75. Global AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Region (2021-2026) & (K Units)

Table 76. Global AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Region (2027-2032) & (K Units)

Table 77. Global AI Computing Driving-parking Integrated Domain Controller Consumption Value by Region (2021-2026) & (USD Million)

Table 78. Global AI Computing Driving-parking Integrated Domain Controller Consumption Value by Region (2027-2032) & (USD Million)

Table 79. Global AI Computing Driving-parking Integrated Domain Controller Average Price by Region (2021-2026) & (US\$/Unit)

Table 80. Global AI Computing Driving-parking Integrated Domain Controller Average Price by Region (2027-2032) & (US\$/Unit)

Table 81. Global AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Type (2021-2026) & (K Units)

Table 82. Global AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Type (2027-2032) & (K Units)

Table 83. Global AI Computing Driving-parking Integrated Domain Controller Consumption Value by Type (2021-2026) & (USD Million)

Table 84. Global AI Computing Driving-parking Integrated Domain Controller Consumption Value by Type (2027-2032) & (USD Million)

Table 85. Global AI Computing Driving-parking Integrated Domain Controller Average Price by Type (2021-2026) & (US\$/Unit)

Table 86. Global AI Computing Driving-parking Integrated Domain Controller Average

Price by Type (2027-2032) & (US\$/Unit)

Table 87. Global AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Application (2021-2026) & (K Units)

Table 88. Global AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Application (2027-2032) & (K Units)

Table 89. Global AI Computing Driving-parking Integrated Domain Controller Consumption Value by Application (2021-2026) & (USD Million)

Table 90. Global AI Computing Driving-parking Integrated Domain Controller Consumption Value by Application (2027-2032) & (USD Million)

Table 91. Global AI Computing Driving-parking Integrated Domain Controller Average Price by Application (2021-2026) & (US\$/Unit)

Table 92. Global AI Computing Driving-parking Integrated Domain Controller Average Price by Application (2027-2032) & (US\$/Unit)

Table 93. North America AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Type (2021-2026) & (K Units)

Table 94. North America AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Type (2027-2032) & (K Units)

Table 95. North America AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Application (2021-2026) & (K Units)

Table 96. North America AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Application (2027-2032) & (K Units)

Table 97. North America AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Country (2021-2026) & (K Units)

Table 98. North America AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Country (2027-2032) & (K Units)

Table 99. North America AI Computing Driving-parking Integrated Domain Controller Consumption Value by Country (2021-2026) & (USD Million)

Table 100. North America AI Computing Driving-parking Integrated Domain Controller Consumption Value by Country (2027-2032) & (USD Million)

Table 101. Europe AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Type (2021-2026) & (K Units)

Table 102. Europe AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Type (2027-2032) & (K Units)

Table 103. Europe AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Application (2021-2026) & (K Units)

Table 104. Europe AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Application (2027-2032) & (K Units)

Table 105. Europe AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Country (2021-2026) & (K Units)

Table 106. Europe AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Country (2027-2032) & (K Units)

Table 107. Europe AI Computing Driving-parking Integrated Domain Controller Consumption Value by Country (2021-2026) & (USD Million)

Table 108. Europe AI Computing Driving-parking Integrated Domain Controller Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Asia-Pacific AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Type (2021-2026) & (K Units)

Table 110. Asia-Pacific AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Type (2027-2032) & (K Units)

Table 111. Asia-Pacific AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Application (2021-2026) & (K Units)

Table 112. Asia-Pacific AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Application (2027-2032) & (K Units)

Table 113. Asia-Pacific AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Region (2021-2026) & (K Units)

Table 114. Asia-Pacific AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Region (2027-2032) & (K Units)

Table 115. Asia-Pacific AI Computing Driving-parking Integrated Domain Controller Consumption Value by Region (2021-2026) & (USD Million)

Table 116. Asia-Pacific AI Computing Driving-parking Integrated Domain Controller Consumption Value by Region (2027-2032) & (USD Million)

Table 117. South America AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Type (2021-2026) & (K Units)

Table 118. South America AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Type (2027-2032) & (K Units)

Table 119. South America AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Application (2021-2026) & (K Units)

Table 120. South America AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Application (2027-2032) & (K Units)

Table 121. South America AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Country (2021-2026) & (K Units)

Table 122. South America AI Computing Driving-parking Integrated Domain Controller Sales Quantity by Country (2027-2032) & (K Units)

Table 123. South America AI Computing Driving-parking Integrated Domain Controller Consumption Value by Country (2021-2026) & (USD Million)

Table 124. South America AI Computing Driving-parking Integrated Domain Controller Consumption Value by Country (2027-2032) & (USD Million)

Table 125. Middle East & Africa AI Computing Driving-parking Integrated Domain

Controller Sales Quantity by Type (2021-2026) & (K Units)

Table 126. Middle East & Africa AI Computing Driving-parking Integrated Domain

Controller Sales Quantity by Type (2027-2032) & (K Units)

Table 127. Middle East & Africa AI Computing Driving-parking Integrated Domain

Controller Sales Quantity by Application (2021-2026) & (K Units)

Table 128. Middle East & Africa AI Computing Driving-parking Integrated Domain

Controller Sales Quantity by Application (2027-2032) & (K Units)

Table 129. Middle East & Africa AI Computing Driving-parking Integrated Domain

Controller Sales Quantity by Country (2021-2026) & (K Units)

Table 130. Middle East & Africa AI Computing Driving-parking Integrated Domain

Controller Sales Quantity by Country (2027-2032) & (K Units)

Table 131. Middle East & Africa AI Computing Driving-parking Integrated Domain

Controller Consumption Value by Country (2021-2026) & (USD Million)

Table 132. Middle East & Africa AI Computing Driving-parking Integrated Domain

Controller Consumption Value by Country (2027-2032) & (USD Million)

Table 133. AI Computing Driving-parking Integrated Domain Controller Raw Material

Table 134. Key Manufacturers of AI Computing Driving-parking Integrated Domain
Controller Raw Materials

Table 135. AI Computing Driving-parking Integrated Domain Controller Typical
Distributors

Table 136. AI Computing Driving-parking Integrated Domain Controller Typical
Customers

List Of Figures

LIST OF FIGURES

- Figure 1. AI Computing Driving-parking Integrated Domain Controller Picture
- Figure 2. Global AI Computing Driving-parking Integrated Domain Controller Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global AI Computing Driving-parking Integrated Domain Controller Revenue Market Share by Type in 2025
- Figure 4. Entry-Level Domain Controller Examples
- Figure 5. Highway NOA Domain Controller Examples
- Figure 6. Urban NOA Domain Controller Examples
- Figure 7. Others Examples
- Figure 8. Global AI Computing Driving-parking Integrated Domain Controller Revenue by Computing Power, (USD Million), 2021 & 2025 & 2032
- Figure 9. Global AI Computing Driving-parking Integrated Domain Controller Revenue Market Share by Computing Power in 2025
- Figure 10. Computing Power?50TOPS Examples
- Figure 11. 50TOPS

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