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Global Single-SoC Cockpit-Driving 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 Single-SoC Cockpit-Driving Integrated Domain Controller market size was valued at US$ 3102 million in 2025 and is forecast to a readjusted size of US$ 11133 million by 2032 with a CAGR of 20.0% during review period.

Single-SoC Cockpit-Driving Integrated Domain Controller is a software-hardware integrated in-vehicle control unit that uses one automotive-grade SoC as the core computing engine to integrate smart cockpit, assisted driving, connectivity, body interaction, and gateway-related functions on a unified domain-controller platform. Compared with a general cockpit-driving integrated domain controller, this product definition emphasizes single-chip computing integration, reduced board-level complexity, lower duplicated hardware deployment, unified operating environment, middleware coordination, virtualization, AI task scheduling, perception-data sharing, human-machine interaction services, and safety isolation between cockpit and driving workloads. In 2025, production was 6.7 million units and the average price was USD 450 per unit. The industry?s capacity utilization rate in 2025 was about 65%, and the average gross margin was around 28%. Upstream, the key components mainly include automotive-grade SoC chips, high-speed memory, Ethernet switch chips and PHYs, PCIe switch chips, and PMIC power management chips, with representative suppliers such as Qualcomm, Micron Technology, and Broadcom providing core computing, storage, networking, and power-management components. The midstream segment focuses on single-SoC computing board design, cockpit-driving fusion architecture, hardware-software integration, AI workload scheduling, perception-data sharing, service middleware integration, virtualization, high-speed communication design, thermal management, functional safety validation, cybersecurity, system testing, and vehicle-

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level integration, which together determine computing-resource utilization, real-time response, cockpit-driving collaboration, software scalability, safety reliability, and cost competitiveness. Downstream, Single-SoC Cockpit-Driving Integrated Domain Controller is mainly used in passenger cars and commercial vehicles, helping vehicle platforms integrate intelligent driving, cockpit interaction, connectivity, body, and gateway functions into a unified software-hardware control architecture, with representative customers including Toyota, Volkswagen, and BYD.

Single-SoC Cockpit-Driving Integrated Domain Controllers will be driven by automakers seeking cockpit-driving fusion without the cost and complexity of separate computing units. In passenger cars, one SoC can coordinate display interaction, voice, navigation, parking assistance, driver monitoring, and basic assisted-driving functions, improving user experience while reducing board area, power consumption, and integration workload. For commercial vehicles, the value is more practical: lower hardware redundancy, simplified maintenance, and unified support for fleet connectivity and safety assistance. Competition will center on SoC computing allocation, workload isolation, thermal control, software middleware maturity, functional safety, and the ability to deliver stable performance at mainstream vehicle cost levels.

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

Global Single-SoC Cockpit-Driving 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 Single-SoC Cockpit-Driving Integrated Domain Controller market size and

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forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Single-SoC Cockpit-Driving 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 Single-SoC Cockpit-Driving 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 Single-SoC Cockpit-Driving 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), Continental / Aumovio (Germany), ZF Friedrichshafen (Germany), Aptiv (USA), Valeo (France), Desay SV (China), Neusoft Reach (China), ECARX (China), Huawei (China), Lenovo Vehicle Computing (China), etc.

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

Market Segmentation

Single-SoC Cockpit-Driving 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

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1Gbps TSN Ethernet

2.5Gbp TSN Ethernet

10Gbps TSN Ethernet

Others

Market segment by Computing Power

Computing Power?50TOPS

50TOPS

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