

Global Single-SoC Cockpit-Driving Integrated Domain Controller Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Single-SoC Cockpit-Driving Integrated Domain Controller market size is expected to reach \$ 11133 million by 2032, rising at a market growth of 20.0% CAGR during the forecast period (2026-2032).

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-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 studies the global Single-SoC Cockpit-Driving Integrated Domain Controller production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single-SoC Cockpit-Driving Integrated 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 Single-SoC Cockpit-Driving Integrated Domain Controller that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single-SoC Cockpit-Driving Integrated Domain Controller total production and demand, 2021-2032, (K Units)

Global Single-SoC Cockpit-Driving Integrated Domain Controller total production value, 2021-2032, (USD Million)

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

Global Single-SoC Cockpit-Driving Integrated Domain Controller consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Single-SoC Cockpit-Driving Integrated Domain Controller domestic production, consumption, key domestic manufacturers and share

Global Single-SoC Cockpit-Driving Integrated Domain Controller production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Single-SoC Cockpit-Driving Integrated Domain Controller production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Single-SoC Cockpit-Driving Integrated Domain Controller production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Single-SoC Cockpit-Driving Integrated 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Single-SoC Cockpit-Driving Integrated 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 Single-SoC Cockpit-Driving Integrated Domain Controller Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single-SoC Cockpit-Driving Integrated Domain Controller Market, Segmentation by Type:

1Gbps TSN Ethernet

2.5Gbp TSN Ethernet

10Gbps TSN Ethernet

Others

Global Single-SoC Cockpit-Driving Integrated Domain Controller Market, Segmentation by Computing Power:

Computing Power?50TOPS

50TOPS

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