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Global Onboard Data Processors 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 Onboard Data Processors market size was valued at US$ 6424 million in 2025 and is forecast to a readjusted size of US$ 12205 million by 2032 with a CAGR of 9.6% during review period.

In 2025, the global onboard data processor market records an annual production volume of approximately 48 million units against a total installed production capacity of around 62 million units per year, with average unit price USD 130, while leading manufacturers typically achieve gross margins of roughly 41%. Onboard Data Processors are embedded computing units installed directly within vehicles to collect, preprocess, analyze, and manage data locally from multiple sensors, control systems, and communication modules, enabling real-time decision-making with low latency and reduced reliance on cloud connectivity. Their supply chain begins upstream with semiconductor IP providers and core component suppliers (CPU/GPU/NPU architectures, memory, power management ICs), followed by wafer fabrication and packaging by foundries and OSATs; midstream players include chipset designers, module and board manufacturers, and firmware/operating system developers that integrate processing hardware with software stacks; downstream, Tier-1 system integrators and OEMs embed these processors into vehicles, with final deployment supported by testing, certification, and lifecycle services such as software updates and cybersecurity maintenance.

This report is a detailed and comprehensive analysis for global Onboard Data Processors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is

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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 Onboard Data Processors market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Onboard Data Processors 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 Onboard Data Processors 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 Onboard Data Processors 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 Onboard Data Processors
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 Onboard Data Processors 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 NVIDIA, Intel, Qualcomm, NXP Semiconductors, Renesas, Texas Instruments, Infineon, STMicroelectronics, ON Semiconductor, Analog Devices, etc.

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

Market Segmentation

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Onboard Data Processors 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

- CPU Based Processors
- GPU Based Processors
- NPU Based Processors
- FPGA Based Processors

Market segment by Compute Performance

- Low Performance (1 TOPS)

Market segment by Application

- Fuel Vehicles
- Electric Vehicles
- Hybrid Vehicles

Major players covered

- NVIDIA
- Intel
- Qualcomm
- NXP Semiconductors

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Renesas

Texas Instruments

Infineon

STMicroelectronics

ON Semiconductor

Analog Devices

Microchip

Telechips

Black Sesame

Rockchip

AMD

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Onboard Data Processors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Onboard Data Processors, with price, sales quantity, revenue, and global market share of Onboard Data Processors from

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2021 to 2026.

Chapter 3, the Onboard Data Processors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Onboard Data Processors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Onboard Data Processors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Onboard Data Processors.

Chapter 14 and 15, to describe Onboard Data Processors sales channel, distributors, customers, research findings and conclusion.

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