

**Data Bus Market Size and Forecast (2021 - 2031),
Global and Regional Share, Trend, and Growth
Opportunity Analysis Report Coverage:
By Component [Hardware (Cables and Connectors,
Assemblies or Terminators, Data Bus Couplers,
Interface Cards or Boards, and Others) and Software],
Type (ARINC 429 or 629, MIL-STD 1533, and Others),
Application (Marine, Automotive, Commercial
Aviation, and Military Aviation), and Geography (North
America, Europe, Asia Pacific, Middle East and Africa,
and South and Central America)**

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Abstracts

The data bus market size was valued at US\$ 22.51 billion in 2024 and is anticipated to reach US\$ 32.07 billion by 2031. The data bus market is estimated to record a CAGR of 5.3% from 2025 to 2031.

In the Middle East & Africa, the data bus market is expanding at a steady pace. The Middle East is poised for transformative growth in aviation infrastructure, with airports across the region planning US\$ 151 billion in expansion investments by 2040 to accommodate projected passenger traffic tripling to 1.1 billion annually. This strategic development underscores the region's growing importance as a global aviation hub, particularly as worldwide air travel is forecast to reach 20 billion passengers by 2042. The scale of investment is staggering, with two megaprojects dominating the landscape: Dubai's US\$ 35 billion Al Maktoum International Airport expansion (targeting 260 million passengers) and Saudi Arabia's US\$ 50 billion King Salman International Airport

development (planned capacity of 300 million passengers by 2030). Together, these flagship projects account for approximately 80% of total airport infrastructure spending in the MENA region. This unprecedented aviation expansion presents significant opportunities for the data bus market in the Middle East & Africa, as modern airport operations increasingly rely on sophisticated digital infrastructure. The integration of advanced data bus systems will be critical for managing real-time passenger processing through biometric and barcode scanning solutions, baggage handling automation requiring high-speed data transmission, and smart terminal operations with IoT-enabled devices and sensors.

The UAE's rapid digital transformation and world-class telecommunications infrastructure are creating a strong foundation for advanced data connectivity and innovation. This digital momentum is driving demand for efficient, high-capacity data transmission networks across the country. According to the "State of Digital Transformation Report" by the Higher Committee for Government Digital Transformation, in May 2025, the UAE secured the top global position across key digital development indicators, including telecommunications infrastructure, digital government, and digital content. The country currently offers 1,419 digital public services used by over 57 million users, supported by 460 ongoing digital transformation projects at the federal level. These achievements will significantly accelerate the UAE data bus market by boosting the need for robust data exchange frameworks to support extensive digital services and smart government initiatives. The expanding digital ecosystem will drive innovation, enhance connectivity, and position the UAE as a leading hub for next-generation data infrastructure in the region.

In terms of hardware, the market is segmented into cables and connectors, assemblies or terminators, data bus couplers, interface cards or boards, and others. The cables and connectors segment held the largest data bus market share in 2024. Cables and connectors are the fundamental transmission paths in data bus systems, responsible for physically linking devices and ensuring uninterrupted signal flow. Cables used in data bus applications, such as shielded twisted pairs or coaxial types, are engineered for durability and resistance to electromagnetic interference (EMI), extreme temperatures, and mechanical stress. Connectors, on the other hand, ensure robust and secure mechanical and electrical connections between devices and subsystems, often incorporating locking mechanisms and EMI shielding. In defense and aerospace platforms, connectors are MIL-spec certified to withstand vibration, moisture, and corrosion. These components are critical in systems such as MIL-STD-1553 and CAN, where maintaining signal integrity over long distances or through complex topologies is essential.

Astronics Corporation, Collins Aerospace, TE Connectivity Ltd, Amphenol Ltd., Data Device Corporation, Excalibur Systems Inc., Curtiss-Wright Corporation, Keysight Technologies Inc, National Instruments Corp, and Holt Integrated Circuits are among the prominent players profiled in the data bus market. Several other major players were also studied and analyzed in the data bus market report to get a holistic view of the market and its ecosystem.

The overall data bus market share has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the data bus market. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders specializing in the data bus market.

Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players and segments in the data bus market.

Highlights key business priorities in order to assist companies to realign their business strategies

The key findings and recommendations such as specific country and segmental insight highlights crucial progressive industry trends in the data bus market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets

Scrutinize in-depth market trends and outlook coupled with the factors driving the market, as well as those hindering it

Enhance the decision-making process by understanding the strategies that

underpin commercial interest with respect to client products, segmentation, pricing and distribution

The List of Companies - Data Bus Market

Astronics Corporation

Collins Aerospace

TE Connectivity Ltd

Amphenol Ltd.

Data Device Corporation

Excalibur Systems Inc.

Curtiss-Wright Corporation

Keysight Technologies Inc

National Instruments Corp

Holt Integrated Circuits

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