

# Global Bidirectional Bus Transceiver Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Bidirectional Bus Transceiver market size is expected to reach \$ 7863 million by 2032, rising at a market growth of 7.7% CAGR during the forecast period (2026-2032).

Bidirectional bus transceivers, as the physical layer interface chip between MCUs/SoCs and fieldbuses/vehicle buses, are fundamental components for reliable differential communication and bus protection in systems such as automotive electronics, motor drives, industrial control, and building/energy management. Their core value lies in solving the pain points of traditional single-ended communication in long-distance, multi-node, and electromagnetically interference-prone environments, such as easy bit errors, easy lock-up, difficulty in suppressing common-mode interference, and the ability of node power failure/short circuit to bring down the entire network. In typical automotive CAN/LIN networks, industrial RS-485 buses, and building and energy management fieldbuses, without highly robust bus transceivers, the controller side cannot withstand common-mode interference of -7 to +12 V or even higher, cable misconnections, and transient surges, making it difficult to guarantee system reliability and security. In 2025, global sales of bidirectional bus transceivers across various application scenarios were estimated at 5.89 billion units. The average selling price was approximately USD 0.75-0.85 per unit, and the overall gross profit margin was approximately 28%-40%, with automotive and industrial bus transceivers such as CAN/LIN/RS-485 being the main contributors. A typical bidirectional bus transceiver structure includes: TXD/RXD or differential I/O pins connected to the controller side, a bus-side differential driver/receiver stage (such as CANH/CANL, A/B lines), current limiting and overvoltage protection networks, ESD/surge protection circuitry, fault protection and bus fail-safe circuitry, low-power/standby/wake-up logic, power supply and reference circuitry, and package pin/heat dissipation structure. Common parameters include: support for bus standards (CAN FD/LIN/RS-485/RS-422, etc.), data rates from 20 kbit/s (LIN) to 1

Mbit/s, 2?5 Mbit/s (CAN FD) and even 50 Mbit/s, supply voltage of 3.3 V or 5 V, common-mode voltage range of ?7 to +12 V or even ?12 to +12 V, bus-side ESD protection of ?8??16 kV, and operating temperature of ?40 to +125 ?. In terms of typical system usage: a gasoline-powered vehicle requires a total of 15?30 CAN/LIN bus transceivers, while a mid-to-high-end new energy vehicle can have 30?60; a medium-sized PLC/distributed I/O station requires approximately 2?6 RS-485/fieldbus transceivers; a photovoltaic inverter/energy storage BMS system requires 4?10 transceivers; and industrial motors/servo drives typically require 1?3 transceivers. The upstream mainly relies on mature process logic and high-voltage wafers (8/16/32 nm and above), packaging substrates and molding materials, precision resistors, capacitors and protection devices, and lead frames; the downstream focuses on automotive ECU manufacturers, industrial control and PLC manufacturers, motor and drive manufacturers, photovoltaic and energy storage system integrators, and building/energy management and rail transit control system suppliers.

This report studies the global Bidirectional Bus Transceiver production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bidirectional Bus Transceiver 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 Bidirectional Bus Transceiver that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Bidirectional Bus Transceiver total production and demand, 2021-2032, (Million Units)

Global Bidirectional Bus Transceiver total production value, 2021-2032, (USD Million)

Global Bidirectional Bus Transceiver production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Bidirectional Bus Transceiver consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Bidirectional Bus Transceiver domestic production, consumption, key domestic manufacturers and share

Global Bidirectional Bus Transceiver production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Bidirectional Bus Transceiver production by Voltage, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Bidirectional Bus Transceiver production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Bidirectional Bus Transceiver 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 Onsemi, TI, Vector Informatik, Toshiba, Infineon, Microchip Technology, Exar, STMicroelectronics, SG MICRO, Nexperia, 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 Bidirectional Bus Transceiver market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Voltage, 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 Bidirectional Bus Transceiver Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bidirectional Bus Transceiver Market, Segmentation by Voltage:

3.6V

5.5V

6V

### Global Bidirectional Bus Transceiver Market, Segmentation by Current Sinking Capability:

8 mA

24 mA

Others

### Global Bidirectional Bus Transceiver Market, Segmentation by Packaging Method:

DW Package

N Package

### Global Bidirectional Bus Transceiver Market, Segmentation by Application:

Industrial Control

Automotive Electronics

Smart Home

Others

### Companies Profiled:

Onsemi

TI

Vector Informatik

Toshiba

Infineon

Microchip Technology

Exar

STMicroelectronics

SG MICRO

Nexperia

Adafruit

Analog Devices

NTE Electronics

Diodes Incorporated

Renesas Electronics

Teledyne

**Key Questions Answered:**

1. How big is the global Bidirectional Bus Transceiver market?
2. What is the demand of the global Bidirectional Bus Transceiver market?
3. What is the year over year growth of the global Bidirectional Bus Transceiver market?
4. What is the production and production value of the global Bidirectional Bus Transceiver market?
5. Who are the key producers in the global Bidirectional Bus Transceiver market?
6. What are the growth factors driving the market demand?

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