

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

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Abstracts

The global Bidirectional Logic Bus Transceiver market size is expected to reach \$ 7952 million by 2032, rising at a market growth of 7.7% CAGR during the forecast period (2026-2032).

Bidirectional logic 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 logic bus transceivers across various application scenarios were estimated at 5.88 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 Logic Bus Transceiver production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Bidirectional Logic 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 Logic 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 Logic Bus Transceiver Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Bidirectional Logic Bus Transceiver Market, Segmentation by Voltage:

3.6V

5.5V

6V

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

8 mA

24 mA

Others

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

DW Package

N Package

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

Contents

1 SUPPLY SUMMARY

- 1.1 Bidirectional Logic Bus Transceiver Introduction
- 1.2 World Bidirectional Logic Bus Transceiver Supply & Forecast
 - 1.2.1 World Bidirectional Logic Bus Transceiver Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Bidirectional Logic Bus Transceiver Production (2021-2032)
 - 1.2.3 World Bidirectional Logic Bus Transceiver Pricing Trends (2021-2032)
- 1.3 World Bidirectional Logic Bus Transceiver Production by Region (Based on Production Site)
 - 1.3.1 World Bidirectional Logic Bus Transceiver Production Value by Region (2021-2032)
 - 1.3.2 World Bidirectional Logic Bus Transceiver Production by Region (2021-2032)
 - 1.3.3 World Bidirectional Logic Bus Transceiver Average Price by Region (2021-2032)
 - 1.3.4 North America Bidirectional Logic Bus Transceiver Production (2021-2032)
 - 1.3.5 Europe Bidirectional Logic Bus Transceiver Production (2021-2032)
 - 1.3.6 China Bidirectional Logic Bus Transceiver Production (2021-2032)
 - 1.3.7 Japan Bidirectional Logic Bus Transceiver Production (2021-2032)
 - 1.3.8 South Korea Bidirectional Logic Bus Transceiver Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Bidirectional Logic Bus Transceiver Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Bidirectional Logic Bus Transceiver Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Bidirectional Logic Bus Transceiver Demand (2021-2032)
- 2.2 World Bidirectional Logic Bus Transceiver Consumption by Region
 - 2.2.1 World Bidirectional Logic Bus Transceiver Consumption by Region (2021-2026)
 - 2.2.2 World Bidirectional Logic Bus Transceiver Consumption Forecast by Region (2027-2032)
- 2.3 United States Bidirectional Logic Bus Transceiver Consumption (2021-2032)
- 2.4 China Bidirectional Logic Bus Transceiver Consumption (2021-2032)
- 2.5 Europe Bidirectional Logic Bus Transceiver Consumption (2021-2032)
- 2.6 Japan Bidirectional Logic Bus Transceiver Consumption (2021-2032)
- 2.7 South Korea Bidirectional Logic Bus Transceiver Consumption (2021-2032)
- 2.8 ASEAN Bidirectional Logic Bus Transceiver Consumption (2021-2032)

2.9 India Bidirectional Logic Bus Transceiver Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Bidirectional Logic Bus Transceiver Production Value by Manufacturer (2021-2026)

3.2 World Bidirectional Logic Bus Transceiver Production by Manufacturer (2021-2026)

3.3 World Bidirectional Logic Bus Transceiver Average Price by Manufacturer (2021-2026)

3.4 Bidirectional Logic Bus Transceiver Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Bidirectional Logic Bus Transceiver Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Bidirectional Logic Bus Transceiver in 2025

3.5.3 Global Concentration Ratios (CR8) for Bidirectional Logic Bus Transceiver in 2025

3.6 Bidirectional Logic Bus Transceiver Market: Overall Company Footprint Analysis

3.6.1 Bidirectional Logic Bus Transceiver Market: Region Footprint

3.6.2 Bidirectional Logic Bus Transceiver Market: Company Product Type Footprint

3.6.3 Bidirectional Logic Bus Transceiver Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Bidirectional Logic Bus Transceiver Production Value Comparison

4.1.1 United States VS China: Bidirectional Logic Bus Transceiver Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Bidirectional Logic Bus Transceiver Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Bidirectional Logic Bus Transceiver Production Comparison

4.2.1 United States VS China: Bidirectional Logic Bus Transceiver Production

Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Bidirectional Logic Bus Transceiver Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Bidirectional Logic Bus Transceiver Consumption Comparison

4.3.1 United States VS China: Bidirectional Logic Bus Transceiver Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Bidirectional Logic Bus Transceiver Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Bidirectional Logic Bus Transceiver Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Bidirectional Logic Bus Transceiver Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Bidirectional Logic Bus Transceiver Production Value (2021-2026)

4.4.3 United States Based Manufacturers Bidirectional Logic Bus Transceiver Production (2021-2026)

4.5 China Based Bidirectional Logic Bus Transceiver Manufacturers and Market Share

4.5.1 China Based Bidirectional Logic Bus Transceiver Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Bidirectional Logic Bus Transceiver Production Value (2021-2026)

4.5.3 China Based Manufacturers Bidirectional Logic Bus Transceiver Production (2021-2026)

4.6 Rest of World Based Bidirectional Logic Bus Transceiver Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Bidirectional Logic Bus Transceiver Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Bidirectional Logic Bus Transceiver Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Bidirectional Logic Bus Transceiver Production (2021-2026)

5 MARKET ANALYSIS BY VOLTAGE

5.1 World Bidirectional Logic Bus Transceiver Market Size Overview by Voltage: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Voltage

5.2.1 3.6V

5.2.2 5.5V

5.2.3 6V

5.3 Market Segment by Voltage

5.3.1 World Bidirectional Logic Bus Transceiver Production by Voltage (2021-2032)

5.3.2 World Bidirectional Logic Bus Transceiver Production Value by Voltage (2021-2032)

5.3.3 World Bidirectional Logic Bus Transceiver Average Price by Voltage (2021-2032)

6 MARKET ANALYSIS BY CURRENT SINKING CAPABILITY

6.1 World Bidirectional Logic Bus Transceiver Market Size Overview by Current Sinking Capability: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Current Sinking Capability

6.2.1 8 mA

6.2.2 24 mA

6.2.3 Others

6.3 Market Segment by Current Sinking Capability

6.3.1 World Bidirectional Logic Bus Transceiver Production by Current Sinking Capability (2021-2032)

6.3.2 World Bidirectional Logic Bus Transceiver Production Value by Current Sinking Capability (2021-2032)

6.3.3 World Bidirectional Logic Bus Transceiver Average Price by Current Sinking Capability (2021-2032)

7 MARKET ANALYSIS BY PACKAGING METHOD

7.1 World Bidirectional Logic Bus Transceiver Market Size Overview by Packaging Method: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Packaging Method

7.2.1 DW Package

7.2.2 N Package

7.3 Market Segment by Packaging Method

7.3.1 World Bidirectional Logic Bus Transceiver Production by Packaging Method (2021-2032)

7.3.2 World Bidirectional Logic Bus Transceiver Production Value by Packaging Method (2021-2032)

7.3.3 World Bidirectional Logic Bus Transceiver Average Price by Packaging Method (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Bidirectional Logic Bus Transceiver Market Size Overview by Application:
2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Industrial Control

8.2.2 Automotive Electronics

8.2.3 Smart Home

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Bidirectional Logic Bus Transceiver Production by Application (2021-2032)

8.3.2 World Bidirectional Logic Bus Transceiver Production Value by Application
(2021-2032)

8.3.3 World Bidirectional Logic Bus Transceiver Average Price by Application
(2021-2032)

9 COMPANY PROFILES

9.1 Onsemi

9.1.1 Onsemi Details

9.1.2 Onsemi Major Business

9.1.3 Onsemi Bidirectional Logic Bus Transceiver Product and Services

9.1.4 Onsemi Bidirectional Logic Bus Transceiver Production, Price, Value, Gross
Margin and Market Share (2021-2026)

9.1.5 Onsemi Recent Developments/Updates

9.1.6 Onsemi Competitive Strengths & Weaknesses

9.2 TI

9.2.1 TI Details

9.2.2 TI Major Business

9.2.3 TI Bidirectional Logic Bus Transceiver Product and Services

9.2.4 TI Bidirectional Logic Bus Transceiver Production, Price, Value, Gross Margin
and Market Share (2021-2026)

9.2.5 TI Recent Developments/Updates

9.2.6 TI Competitive Strengths & Weaknesses

9.3 Vector Informatik

9.3.1 Vector Informatik Details

9.3.2 Vector Informatik Major Business

9.3.3 Vector Informatik Bidirectional Logic Bus Transceiver Product and Services

9.3.4 Vector Informatik Bidirectional Logic Bus Transceiver Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.3.5 Vector Informatik Recent Developments/Updates

9.3.6 Vector Informatik Competitive Strengths & Weaknesses

9.4 Toshiba

9.4.1 Toshiba Details

9.4.2 Toshiba Major Business

9.4.3 Toshiba Bidirectional Logic Bus Transceiver Product and Services

9.4.4 Toshiba Bidirectional Logic Bus Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Toshiba Recent Developments/Updates

9.4.6 Toshiba Competitive Strengths & Weaknesses

9.5 Infineon

9.5.1 Infineon Details

9.5.2 Infineon Major Business

9.5.3 Infineon Bidirectional Logic Bus Transceiver Product and Services

9.5.4 Infineon Bidirectional Logic Bus Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Infineon Recent Developments/Updates

9.5.6 Infineon Competitive Strengths & Weaknesses

9.6 Microchip Technology

9.6.1 Microchip Technology Details

9.6.2 Microchip Technology Major Business

9.6.3 Microchip Technology Bidirectional Logic Bus Transceiver Product and Services

9.6.4 Microchip Technology Bidirectional Logic Bus Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Microchip Technology Recent Developments/Updates

9.6.6 Microchip Technology Competitive Strengths & Weaknesses

9.7 Exar

9.7.1 Exar Details

9.7.2 Exar Major Business

9.7.3 Exar Bidirectional Logic Bus Transceiver Product and Services

9.7.4 Exar Bidirectional Logic Bus Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Exar Recent Developments/Updates

9.7.6 Exar Competitive Strengths & Weaknesses

9.8 STMicroelectronics

9.8.1 STMicroelectronics Details

9.8.2 STMicroelectronics Major Business

9.8.3 STMicroelectronics Bidirectional Logic Bus Transceiver Product and Services

9.8.4 STMicroelectronics Bidirectional Logic Bus Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 STMicroelectronics Recent Developments/Updates

9.8.6 STMicroelectronics Competitive Strengths & Weaknesses

9.9 SG MICRO

9.9.1 SG MICRO Details

9.9.2 SG MICRO Major Business

9.9.3 SG MICRO Bidirectional Logic Bus Transceiver Product and Services

9.9.4 SG MICRO Bidirectional Logic Bus Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 SG MICRO Recent Developments/Updates

9.9.6 SG MICRO Competitive Strengths & Weaknesses

9.10 Nexperia

9.10.1 Nexperia Details

9.10.2 Nexperia Major Business

9.10.3 Nexperia Bidirectional Logic Bus Transceiver Product and Services

9.10.4 Nexperia Bidirectional Logic Bus Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Nexperia Recent Developments/Updates

9.10.6 Nexperia Competitive Strengths & Weaknesses

9.11 Adafruit

9.11.1 Adafruit Details

9.11.2 Adafruit Major Business

9.11.3 Adafruit Bidirectional Logic Bus Transceiver Product and Services

9.11.4 Adafruit Bidirectional Logic Bus Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Adafruit Recent Developments/Updates

9.11.6 Adafruit Competitive Strengths & Weaknesses

9.12 Analog Devices

9.12.1 Analog Devices Details

9.12.2 Analog Devices Major Business

9.12.3 Analog Devices Bidirectional Logic Bus Transceiver Product and Services

9.12.4 Analog Devices Bidirectional Logic Bus Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Analog Devices Recent Developments/Updates

9.12.6 Analog Devices Competitive Strengths & Weaknesses

9.13 NTE Electronics

9.13.1 NTE Electronics Details

9.13.2 NTE Electronics Major Business

- 9.13.3 NTE Electronics Bidirectional Logic Bus Transceiver Product and Services
- 9.13.4 NTE Electronics Bidirectional Logic Bus Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.13.5 NTE Electronics Recent Developments/Updates
- 9.13.6 NTE Electronics Competitive Strengths & Weaknesses
- 9.14 Diodes Incorporated
 - 9.14.1 Diodes Incorporated Details
 - 9.14.2 Diodes Incorporated Major Business
 - 9.14.3 Diodes Incorporated Bidirectional Logic Bus Transceiver Product and Services
 - 9.14.4 Diodes Incorporated Bidirectional Logic Bus Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Diodes Incorporated Recent Developments/Updates
 - 9.14.6 Diodes Incorporated Competitive Strengths & Weaknesses
- 9.15 Renesas Electronics
 - 9.15.1 Renesas Electronics Details
 - 9.15.2 Renesas Electronics Major Business
 - 9.15.3 Renesas Electronics Bidirectional Logic Bus Transceiver Product and Services
 - 9.15.4 Renesas Electronics Bidirectional Logic Bus Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Renesas Electronics Recent Developments/Updates
 - 9.15.6 Renesas Electronics Competitive Strengths & Weaknesses
- 9.16 Teledyne
 - 9.16.1 Teledyne Details
 - 9.16.2 Teledyne Major Business
 - 9.16.3 Teledyne Bidirectional Logic Bus Transceiver Product and Services
 - 9.16.4 Teledyne Bidirectional Logic Bus Transceiver Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Teledyne Recent Developments/Updates
 - 9.16.6 Teledyne Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Bidirectional Logic Bus Transceiver Industry Chain
- 10.2 Bidirectional Logic Bus Transceiver Upstream Analysis
 - 10.2.1 Bidirectional Logic Bus Transceiver Core Raw Materials
 - 10.2.2 Main Manufacturers of Bidirectional Logic Bus Transceiver Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Bidirectional Logic Bus Transceiver Production Mode

10.6 Bidirectional Logic Bus Transceiver Procurement Model

10.7 Bidirectional Logic Bus Transceiver Industry Sales Model and Sales Channels

10.7.1 Bidirectional Logic Bus Transceiver Sales Model

10.7.2 Bidirectional Logic Bus Transceiver Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Bidirectional Logic Bus Transceiver Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Bidirectional Logic Bus Transceiver Production Value by Region (2021-2026) & (USD Million)

Table 3. World Bidirectional Logic Bus Transceiver Production Value by Region (2027-2032) & (USD Million)

Table 4. World Bidirectional Logic Bus Transceiver Production Value Market Share by Region (2021-2026)

Table 5. World Bidirectional Logic Bus Transceiver Production Value Market Share by Region (2027-2032)

Table 6. World Bidirectional Logic Bus Transceiver Production by Region (2021-2026) & (Million Units)

Table 7. World Bidirectional Logic Bus Transceiver Production by Region (2027-2032) & (Million Units)

Table 8. World Bidirectional Logic Bus Transceiver Production Market Share by Region (2021-2026)

Table 9. World Bidirectional Logic Bus Transceiver Production Market Share by Region (2027-2032)

Table 10. World Bidirectional Logic Bus Transceiver Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Bidirectional Logic Bus Transceiver Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Bidirectional Logic Bus Transceiver Major Market Trends

Table 13. World Bidirectional Logic Bus Transceiver Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World Bidirectional Logic Bus Transceiver Consumption by Region (2021-2026) & (Million Units)

Table 15. World Bidirectional Logic Bus Transceiver Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World Bidirectional Logic Bus Transceiver Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Bidirectional Logic Bus Transceiver Producers in 2025

Table 18. World Bidirectional Logic Bus Transceiver Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key Bidirectional Logic Bus Transceiver Producers in 2025

Table 20. World Bidirectional Logic Bus Transceiver Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Bidirectional Logic Bus Transceiver Company Evaluation Quadrant

Table 22. World Bidirectional Logic Bus Transceiver Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Bidirectional Logic Bus Transceiver Production Site of Key Manufacturer

Table 24. Bidirectional Logic Bus Transceiver Market: Company Product Type Footprint

Table 25. Bidirectional Logic Bus Transceiver Market: Company Product Application Footprint

Table 26. Bidirectional Logic Bus Transceiver Competitive Factors

Table 27. Bidirectional Logic Bus Transceiver New Entrant and Capacity Expansion Plans

Table 28. Bidirectional Logic Bus Transceiver Mergers & Acquisitions Activity

Table 29. United States VS China Bidirectional Logic Bus Transceiver Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Bidirectional Logic Bus Transceiver Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China Bidirectional Logic Bus Transceiver Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based Bidirectional Logic Bus Transceiver Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Bidirectional Logic Bus Transceiver Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Bidirectional Logic Bus Transceiver Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Bidirectional Logic Bus Transceiver Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers Bidirectional Logic Bus Transceiver Production Market Share (2021-2026)

Table 37. China Based Bidirectional Logic Bus Transceiver Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Bidirectional Logic Bus Transceiver Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Bidirectional Logic Bus Transceiver Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Bidirectional Logic Bus Transceiver Production,

(2021-2026) & (Million Units)

Table 41. China Based Manufacturers Bidirectional Logic Bus Transceiver Production Market Share (2021-2026)

Table 42. Rest of World Based Bidirectional Logic Bus Transceiver Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Bidirectional Logic Bus Transceiver Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Bidirectional Logic Bus Transceiver Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Bidirectional Logic Bus Transceiver Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers Bidirectional Logic Bus Transceiver Production Market Share (2021-2026)

Table 47. World Bidirectional Logic Bus Transceiver Production Value by Voltage, (USD Million), 2021 & 2025 & 2032

Table 48. World Bidirectional Logic Bus Transceiver Production by Voltage (2021-2026) & (Million Units)

Table 49. World Bidirectional Logic Bus Transceiver Production by Voltage (2027-2032) & (Million Units)

Table 50. World Bidirectional Logic Bus Transceiver Production Value by Voltage (2021-2026) & (USD Million)

Table 51. World Bidirectional Logic Bus Transceiver Production Value by Voltage (2027-2032) & (USD Million)

Table 52. World Bidirectional Logic Bus Transceiver Average Price by Voltage (2021-2026) & (US\$/Unit)

Table 53. World Bidirectional Logic Bus Transceiver Average Price by Voltage (2027-2032) & (US\$/Unit)

Table 54. World Bidirectional Logic Bus Transceiver Production Value by Current Sinking Capability, (USD Million), 2021 & 2025 & 2032

Table 55. World Bidirectional Logic Bus Transceiver Production by Current Sinking Capability (2021-2026) & (Million Units)

Table 56. World Bidirectional Logic Bus Transceiver Production by Current Sinking Capability (2027-2032) & (Million Units)

Table 57. World Bidirectional Logic Bus Transceiver Production Value by Current Sinking Capability (2021-2026) & (USD Million)

Table 58. World Bidirectional Logic Bus Transceiver Production Value by Current Sinking Capability (2027-2032) & (USD Million)

Table 59. World Bidirectional Logic Bus Transceiver Average Price by Current Sinking Capability (2021-2026) & (US\$/Unit)

Table 60. World Bidirectional Logic Bus Transceiver Average Price by Current Sinking Capability (2027-2032) & (US\$/Unit)

Table 61. World Bidirectional Logic Bus Transceiver Production Value by Packaging Method, (USD Million), 2021 & 2025 & 2032

Table 62. World Bidirectional Logic Bus Transceiver Production by Packaging Method (2021-2026) & (Million Units)

Table 63. World Bidirectional Logic Bus Transceiver Production by Packaging Method (2027-2032) & (Million Units)

Table 64. World Bidirectional Logic Bus Transceiver Production Value by Packaging Method (2021-2026) & (USD Million)

Table 65. World Bidirectional Logic Bus Transceiver Production Value by Packaging Method (2027-2032) & (USD Million)

Table 66. World Bidirectional Logic Bus Transceiver Average Price by Packaging Method (2021-2026) & (US\$/Unit)

Table 67. World Bidirectional Logic Bus Transceiver Average Price by Packaging Method (2027-2032) & (US\$/Unit)

Table 68. World Bidirectional Logic Bus Transceiver Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Bidirectional Logic Bus Transceiver Production by Application (2021-2026) & (Million Units)

Table 70. World Bidirectional Logic Bus Transceiver Production by Application (2027-2032) & (Million Units)

Table 71. World Bidirectional Logic Bus Transceiver Production Value by Application (2021-2026) & (USD Million)

Table 72. World Bidirectional Logic Bus Transceiver Production Value by Application (2027-2032) & (USD Million)

Table 73. World Bidirectional Logic Bus Transceiver Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Bidirectional Logic Bus Transceiver Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Onsemi Basic Information, Manufacturing Base and Competitors

Table 76. Onsemi Major Business

Table 77. Onsemi Bidirectional Logic Bus Transceiver Product and Services

Table 78. Onsemi Bidirectional Logic Bus Transceiver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Onsemi Recent Developments/Updates

Table 80. Onsemi Competitive Strengths & Weaknesses

Table 81. TI Basic Information, Manufacturing Base and Competitors

Table 82. TI Major Business

Table 83. TI Bidirectional Logic Bus Transceiver Product and Services

Table 84. TI Bidirectional Logic Bus Transceiver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. TI Recent Developments/Updates

Table 86. TI Competitive Strengths & Weaknesses

Table 87. Vector Informatik Basic Information, Manufacturing Base and Competitors

Table 88. Vector Informatik Major Business

Table 89. Vector Informatik Bidirectional Logic Bus Transceiver Product and Services

Table 90. Vector Informatik Bidirectional Logic Bus Transceiver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Vector Informatik Recent Developments/Updates

Table 92. Vector Informatik Competitive Strengths & Weaknesses

Table 93. Toshiba Basic Information, Manufacturing Base and Competitors

Table 94. Toshiba Major Business

Table 95. Toshiba Bidirectional Logic Bus Transceiver Product and Services

Table 96. Toshiba Bidirectional Logic Bus Transceiver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Toshiba Recent Developments/Updates

Table 98. Toshiba Competitive Strengths & Weaknesses

Table 99. Infineon Basic Information, Manufacturing Base and Competitors

Table 100. Infineon Major Business

Table 101. Infineon Bidirectional Logic Bus Transceiver Product and Services

Table 102. Infineon Bidirectional Logic Bus Transceiver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Infineon Recent Developments/Updates

Table 104. Infineon Competitive Strengths & Weaknesses

Table 105. Microchip Technology Basic Information, Manufacturing Base and Competitors

Table 106. Microchip Technology Major Business

Table 107. Microchip Technology Bidirectional Logic Bus Transceiver Product and Services

Table 108. Microchip Technology Bidirectional Logic Bus Transceiver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 109. Microchip Technology Recent Developments/Updates
- Table 110. Microchip Technology Competitive Strengths & Weaknesses
- Table 111. Exar Basic Information, Manufacturing Base and Competitors
- Table 112. Exar Major Business
- Table 113. Exar Bidirectional Logic Bus Transceiver Product and Services
- Table 114. Exar Bidirectional Logic Bus Transceiver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Exar Recent Developments/Updates
- Table 116. Exar Competitive Strengths & Weaknesses
- Table 117. STMicroelectronics Basic Information, Manufacturing Base and Competitors
- Table 118. STMicroelectronics Major Business
- Table 119. STMicroelectronics Bidirectional Logic Bus Transceiver Product and Services
- Table 120. STMicroelectronics Bidirectional Logic Bus Transceiver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. STMicroelectronics Recent Developments/Updates
- Table 122. STMicroelectronics Competitive Strengths & Weaknesses
- Table 123. SG MICRO Basic Information, Manufacturing Base and Competitors
- Table 124. SG MICRO Major Business
- Table 125. SG MICRO Bidirectional Logic Bus Transceiver Product and Services
- Table 126. SG MICRO Bidirectional Logic Bus Transceiver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. SG MICRO Recent Developments/Updates
- Table 128. SG MICRO Competitive Strengths & Weaknesses
- Table 129. Nexperia Basic Information, Manufacturing Base and Competitors
- Table 130. Nexperia Major Business
- Table 131. Nexperia Bidirectional Logic Bus Transceiver Product and Services
- Table 132. Nexperia Bidirectional Logic Bus Transceiver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Nexperia Recent Developments/Updates
- Table 134. Nexperia Competitive Strengths & Weaknesses
- Table 135. Adafruit Basic Information, Manufacturing Base and Competitors
- Table 136. Adafruit Major Business
- Table 137. Adafruit Bidirectional Logic Bus Transceiver Product and Services
- Table 138. Adafruit Bidirectional Logic Bus Transceiver Production (Million Units), Price

(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Adafruit Recent Developments/Updates

Table 140. Adafruit Competitive Strengths & Weaknesses

Table 141. Analog Devices Basic Information, Manufacturing Base and Competitors

Table 142. Analog Devices Major Business

Table 143. Analog Devices Bidirectional Logic Bus Transceiver Product and Services

Table 144. Analog Devices Bidirectional Logic Bus Transceiver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Analog Devices Recent Developments/Updates

Table 146. Analog Devices Competitive Strengths & Weaknesses

Table 147. NTE Electronics Basic Information, Manufacturing Base and Competitors

Table 148. NTE Electronics Major Business

Table 149. NTE Electronics Bidirectional Logic Bus Transceiver Product and Services

Table 150. NTE Electronics Bidirectional Logic Bus Transceiver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. NTE Electronics Recent Developments/Updates

Table 152. NTE Electronics Competitive Strengths & Weaknesses

Table 153. Diodes Incorporated Basic Information, Manufacturing Base and Competitors

Table 154. Diodes Incorporated Major Business

Table 155. Diodes Incorporated Bidirectional Logic Bus Transceiver Product and Services

Table 156. Diodes Incorporated Bidirectional Logic Bus Transceiver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Diodes Incorporated Recent Developments/Updates

Table 158. Diodes Incorporated Competitive Strengths & Weaknesses

Table 159. Renesas Electronics Basic Information, Manufacturing Base and Competitors

Table 160. Renesas Electronics Major Business

Table 161. Renesas Electronics Bidirectional Logic Bus Transceiver Product and Services

Table 162. Renesas Electronics Bidirectional Logic Bus Transceiver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Renesas Electronics Recent Developments/Updates

Table 164. Renesas Electronics Competitive Strengths & Weaknesses

Table 165. Teledyne Basic Information, Manufacturing Base and Competitors

Table 166. Teledyne Major Business

Table 167. Teledyne Bidirectional Logic Bus Transceiver Product and Services

Table 168. Teledyne Bidirectional Logic Bus Transceiver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Teledyne Recent Developments/Updates

Table 170. Teledyne Competitive Strengths & Weaknesses

Table 171. Global Key Players of Bidirectional Logic Bus Transceiver Upstream (Raw Materials)

Table 172. Global Bidirectional Logic Bus Transceiver Typical Customers

Table 173. Bidirectional Logic Bus Transceiver Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Bidirectional Logic Bus Transceiver Picture

Figure 2. World Bidirectional Logic Bus Transceiver Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Bidirectional Logic Bus Transceiver Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Bidirectional Logic Bus Transceiver Production (2021-2032) & (Million Units)

Figure 5. World Bidirectional Logic Bus Transceiver Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Bidirectional Logic Bus Transceiver Production Value Market Share by Region (2021-2032)

Figure 7. World Bidirectional Logic Bus Transceiver Production Market Share by Region (2021-2032)

Figure 8. North America Bidirectional Logic Bus Transceiver Production (2021-2032) & (Million Units)

Figure 9. Europe Bidirectional Logic Bus Transceiver Production (2021-2032) & (Million Units)

Figure 10. China Bidirectional Logic Bus Transceiver Production (2021-2032) & (Million Units)

Figure 11. Japan Bidirectional Logic Bus Transceiver Production (2021-2032) & (Million Units)

Figure 12. South Korea Bidirectional Logic Bus Transceiver Production (2021-2032) & (Million Units)

Figure 13. Bidirectional Logic Bus Transceiver Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Bidirectional Logic Bus Transceiver Consumption (2021-2032) & (Million Units)

Figure 16. World Bidirectional Logic Bus Transceiver Consumption Market Share by Region (2021-2032)

Figure 17. United States Bidirectional Logic Bus Transceiver Consumption (2021-2032) & (Million Units)

Figure 18. China Bidirectional Logic Bus Transceiver Consumption (2021-2032) & (Million Units)

Figure 19. Europe Bidirectional Logic Bus Transceiver Consumption (2021-2032) & (Million Units)

Figure 20. Japan Bidirectional Logic Bus Transceiver Consumption (2021-2032) & (Million Units)

Figure 21. South Korea Bidirectional Logic Bus Transceiver Consumption (2021-2032) & (Million Units)

Figure 22. ASEAN Bidirectional Logic Bus Transceiver Consumption (2021-2032) & (Million Units)

Figure 23. India Bidirectional Logic Bus Transceiver Consumption (2021-2032) & (Million Units)

Figure 24. Producer Shipments of Bidirectional Logic Bus Transceiver by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Bidirectional Logic Bus Transceiver Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Bidirectional Logic Bus Transceiver Markets in 2025

Figure 27. United States VS China: Bidirectional Logic Bus Transceiver Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Bidirectional Logic Bus Transceiver Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Bidirectional Logic Bus Transceiver Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Bidirectional Logic Bus Transceiver Production Market Share 2025

Figure 31. China Based Manufacturers Bidirectional Logic Bus Transceiver Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Bidirectional Logic Bus Transceiver Production Market Share 2025

Figure 33. World Bidirectional Logic Bus Transceiver Production Value by Voltage, (USD Million), 2021 & 2025 & 2032

Figure 34. World Bidirectional Logic Bus Transceiver Production Value Market Share by Voltage in 2025

Figure 35. 3.6V

Figure 36. 5.5V

Figure 37. 6V

Figure 38. World Bidirectional Logic Bus Transceiver Production Market Share by Voltage (2021-2032)

Figure 39. World Bidirectional Logic Bus Transceiver Production Value Market Share by Voltage (2021-2032)

Figure 40. World Bidirectional Logic Bus Transceiver Average Price by Voltage (2021-2032) & (US\$/Unit)

Figure 41. World Bidirectional Logic Bus Transceiver Production Value by Current Sinking Capability, (USD Million), 2021 & 2025 & 2032

Figure 42. World Bidirectional Logic Bus Transceiver Production Value Market Share by Current Sinking Capability in 2025

Figure 43. 8 mA

Figure 44. 24 mA

Figure 45. Others

Figure 46. World Bidirectional Logic Bus Transceiver Production Market Share by Current Sinking Capability (2021-2032)

Figure 47. World Bidirectional Logic Bus Transceiver Production Value Market Share by Current Sinking Capability (2021-2032)

Figure 48. World Bidirectional Logic Bus Transceiver Average Price by Current Sinking Capability (2021-2032) & (US\$/Unit)

Figure 49. World Bidirectional Logic Bus Transceiver Production Value by Packaging Method, (USD Million), 2021 & 2025 & 2032

Figure 50. World Bidirectional Logic Bus Transceiver Production Value Market Share by Packaging Method in 2025

Figure 51. DW Package

Figure 52. N Package

Figure 53. World Bidirectional Logic Bus Transceiver Production Market Share by Packaging Method (2021-2032)

Figure 54. World Bidirectional Logic Bus Transceiver Production Value Market Share by Packaging Method (2021-2032)

Figure 55. World Bidirectional Logic Bus Transceiver Average Price by Packaging Method (2021-2032) & (US\$/Unit)

Figure 56. World Bidirectional Logic Bus Transceiver Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Bidirectional Logic Bus Transceiver Production Value Market Share by Application in 2025

Figure 58. Industrial Control

Figure 59. Automotive Electronics

Figure 60. Smart Home

Figure 61. Others

Figure 62. World Bidirectional Logic Bus Transceiver Production Market Share by Application (2021-2032)

Figure 63. World Bidirectional Logic Bus Transceiver Production Value Market Share by Application (2021-2032)

Figure 64. World Bidirectional Logic Bus Transceiver Average Price by Application (2021-2032) & (US\$/Unit)

Figure 65. Bidirectional Logic Bus Transceiver Industry Chain

Figure 66. Bidirectional Logic Bus Transceiver Procurement Model

Figure 67. Bidirectional Logic Bus Transceiver Sales Model

Figure 68. Bidirectional Logic Bus Transceiver Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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