

# Global Unidirectional Level Translators Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Unidirectional Level Translators market size is expected to reach \$ 2473 million by 2032, rising at a market growth of 3.7% CAGR during the forecast period (2026-2032).

A unidirectional level translator is a standard interface logic device used to connect different digital voltage domains within the same system. It converts a digital signal in a fixed direction from one domain to another so that MCUs, FPGAs, sensors, and peripherals can interoperate reliably across multi supply designs spanning common rails from about 1.1 V up to 5 V. A typical device uses either a dual supply or single supply architecture, where the input side references one supply and the output side references the other, implementing one way translation through a buffer stage and often a three state output, while balancing propagation delay and output drive for high speed GPIO and control lines. To support mobile and low power designs, many parts include loff or partial power down isolation to prevent back powering when one domain is off, and they are offered in compact packages to reduce board area. Product forms range from single bit translating buffers to multi bit translators and direction configurable translators that can be deployed as fixed direction in a given design, and they are broadly shipped as standard logic through distribution and direct sales into consumer, industrial, communications, and automotive applications. In push pull signal paths, the unidirectional approach avoids auto direction sensing and delivers more predictable timing. For example, DIOO's DIO74134 specifies an operating supply range around 1.08 V to 3.6 V and supports multiple common voltage nodes with milliamp level output drive, making it suitable for terminals and industrial equipment. Some devices also add input hysteresis and noise immunity features to improve switching robustness under slow edges or board level coupling. In practice, engineers select parts by channel count, voltage range, speed, direction control method, and power off protection capability.

Unidirectional level translators are a foundational building block in standard logic and interface devices, delivering fixed direction voltage domain translation to solve the most common I/O mismatch problem in multi-rail systems. As SoC core and I/O voltages continue to scale down while legacy peripheral voltages persist, the number of voltage domains on a board keeps increasing, and unidirectional translators are widely deployed on GPIO control signals such as reset, interrupt, enable, and other one-way data and control lines. Compared with bidirectional solutions that rely on auto-direction detection, unidirectional devices offer more predictable timing in push-pull paths, which simplifies signal integrity tuning and makes system validation more repeatable. Vendors typically provide both single-bit translating buffers and multi-bit translators, and they offer industrial and automotive grade variants in parallel to meet reliability and lifetime requirements from consumer to automotive electronics.

From a technology evolution perspective, voltage range coverage, speed capability, and power-off protection jointly determine engineering fit. A single supply approach can translate up and down at a higher VCC while keeping the logic output referenced to the same rail, which is practical for compatibility upgrades in 3.3 V and 5 V ecosystems. A dual supply approach instead lets the input port and output port track different rails, enabling universal translation across low voltage nodes such as 0.9 V to 3.6 V. In parallel, partial power-down isolation and Ioff behavior are increasingly essential to prevent back-powering and damage when one domain is off, and input hysteresis plus noise immunity features help robustness under slow edges and complex board coupling. On the packaging side, continued migration to compact options such as SC70 and DFN reduces area and parasitics, supporting higher density terminals and industrial modules.

From an industry and market angle, supply is globally multi-sourced, and leading vendors differentiate unidirectional and auto-sensing attributes through catalog and parametric filtering, which standardizes selection and improves cross-vendor substitutability. Demand is supported by consumer electronics, industrial control, communications equipment, and automotive electronics. Automotive and industrial users generally prefer automotive grade parts and wide temperature ranges, while portable consumer designs emphasize low static current and strong power-off isolation. Future growth is driven by the rising number of voltage domains per system that increases unit consumption, as well as ongoing upgrades toward lower voltage nodes, smaller packages, and stronger power-off protection. Overall, as a base logic category, unidirectional level translators tend to have long product lifecycles and steady expansion characteristics, making multi-vendor qualification and platform-based part

selection a sensible supply chain strategy.

This report studies the global Unidirectional Level Translators production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Unidirectional Level Translators 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 Unidirectional Level Translators that contribute to its increasing demand across many markets.

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

Global Unidirectional Level Translators total production and demand, 2021-2032, (Million Units)

Global Unidirectional Level Translators total production value, 2021-2032, (USD Million)

Global Unidirectional Level Translators production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Unidirectional Level Translators consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Unidirectional Level Translators domestic production, consumption, key domestic manufacturers and share

Global Unidirectional Level Translators production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Unidirectional Level Translators production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Unidirectional Level Translators production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Unidirectional Level Translators 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 3PEAK, Analog Devices, DIOO Microcircuits, Diodes Incorporated, ETEK Microelectronics, Microchip Technology, NXP Semiconductors, Nexperia, Renesas Electronics, STMicroelectronics, 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 Unidirectional Level Translators 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 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 Unidirectional Level Translators Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Unidirectional Level Translators Market, Segmentation by Type:

Single-Channel

Dual-Channel

Multi-Channel

Global Unidirectional Level Translators Market, Segmentation by Power Architecture:

Single-Supply

Dual-Supply

Global Unidirectional Level Translators Market, Segmentation by Direction Configuration Method:

Fixed Direction

DIR Pin Configurable

Global Unidirectional Level Translators Market, Segmentation by Application:

Household Electrical Appliances

Industrial Automation

LED

Electrical and Electronic

Other

Companies Profiled:

3PEAK

Analog Devices

DIOO Microcircuits

Diodes Incorporated

ETEK Microelectronics

Microchip Technology

NXP Semiconductors

Nexperia

Renesas Electronics

STMicroelectronics

Texas Instruments

Toshiba

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### **Key Questions Answered:**

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

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

- 2.1 World Unidirectional Level Translators Demand (2021-2032)
- 2.2 World Unidirectional Level Translators Consumption by Region
  - 2.2.1 World Unidirectional Level Translators Consumption by Region (2021-2026)
  - 2.2.2 World Unidirectional Level Translators Consumption Forecast by Region (2027-2032)
- 2.3 United States Unidirectional Level Translators Consumption (2021-2032)
- 2.4 China Unidirectional Level Translators Consumption (2021-2032)
- 2.5 Europe Unidirectional Level Translators Consumption (2021-2032)
- 2.6 Japan Unidirectional Level Translators Consumption (2021-2032)
- 2.7 South Korea Unidirectional Level Translators Consumption (2021-2032)
- 2.8 ASEAN Unidirectional Level Translators Consumption (2021-2032)
- 2.9 India Unidirectional Level Translators Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

- 3.1 World Unidirectional Level Translators Production Value by Manufacturer (2021-2026)
- 3.2 World Unidirectional Level Translators Production by Manufacturer (2021-2026)
- 3.3 World Unidirectional Level Translators Average Price by Manufacturer (2021-2026)
- 3.4 Unidirectional Level Translators Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Unidirectional Level Translators Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Unidirectional Level Translators in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Unidirectional Level Translators in 2025
- 3.6 Unidirectional Level Translators Market: Overall Company Footprint Analysis
  - 3.6.1 Unidirectional Level Translators Market: Region Footprint
  - 3.6.2 Unidirectional Level Translators Market: Company Product Type Footprint
  - 3.6.3 Unidirectional Level Translators 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: Unidirectional Level Translators Production Value Comparison
  - 4.1.1 United States VS China: Unidirectional Level Translators Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Unidirectional Level Translators Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Unidirectional Level Translators Production Comparison
  - 4.2.1 United States VS China: Unidirectional Level Translators Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Unidirectional Level Translators Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Unidirectional Level Translators Consumption Comparison
  - 4.3.1 United States VS China: Unidirectional Level Translators Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Unidirectional Level Translators Consumption Market

Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Unidirectional Level Translators Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Unidirectional Level Translators Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Unidirectional Level Translators Production Value (2021-2026)

4.4.3 United States Based Manufacturers Unidirectional Level Translators Production (2021-2026)

4.5 China Based Unidirectional Level Translators Manufacturers and Market Share

4.5.1 China Based Unidirectional Level Translators Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Unidirectional Level Translators Production Value (2021-2026)

4.5.3 China Based Manufacturers Unidirectional Level Translators Production (2021-2026)

4.6 Rest of World Based Unidirectional Level Translators Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Unidirectional Level Translators Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Unidirectional Level Translators Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Unidirectional Level Translators Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Unidirectional Level Translators Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Single-Channel

5.2.2 Dual-Channel

5.2.3 Multi-Channel

5.3 Market Segment by Type

5.3.1 World Unidirectional Level Translators Production by Type (2021-2032)

5.3.2 World Unidirectional Level Translators Production Value by Type (2021-2032)

5.3.3 World Unidirectional Level Translators Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY POWER ARCHITECTURE**

6.1 World Unidirectional Level Translators Market Size Overview by Power Architecture: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Power Architecture

6.2.1 Single-Supply

6.2.2 Dual-Supply

6.3 Market Segment by Power Architecture

6.3.1 World Unidirectional Level Translators Production by Power Architecture (2021-2032)

6.3.2 World Unidirectional Level Translators Production Value by Power Architecture (2021-2032)

6.3.3 World Unidirectional Level Translators Average Price by Power Architecture (2021-2032)

## **7 MARKET ANALYSIS BY DIRECTION CONFIGURATION METHOD**

7.1 World Unidirectional Level Translators Market Size Overview by Direction Configuration Method: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Direction Configuration Method

7.2.1 Fixed Direction

7.2.2 DIR Pin Configurable

7.3 Market Segment by Direction Configuration Method

7.3.1 World Unidirectional Level Translators Production by Direction Configuration Method (2021-2032)

7.3.2 World Unidirectional Level Translators Production Value by Direction Configuration Method (2021-2032)

7.3.3 World Unidirectional Level Translators Average Price by Direction Configuration Method (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Unidirectional Level Translators Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Household Electrical Appliances

8.2.2 Industrial Automation

8.2.3 LED

8.2.4 Electrical and Electronic

8.2.5 Other

## 8.3 Market Segment by Application

8.3.1 World Unidirectional Level Translators Production by Application (2021-2032)

8.3.2 World Unidirectional Level Translators Production Value by Application (2021-2032)

8.3.3 World Unidirectional Level Translators Average Price by Application (2021-2032)

## 9 COMPANY PROFILES

### 9.1 3PEAK

9.1.1 3PEAK Details

9.1.2 3PEAK Major Business

9.1.3 3PEAK Unidirectional Level Translators Product and Services

9.1.4 3PEAK Unidirectional Level Translators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 3PEAK Recent Developments/Updates

9.1.6 3PEAK Competitive Strengths & Weaknesses

### 9.2 Analog Devices

9.2.1 Analog Devices Details

9.2.2 Analog Devices Major Business

9.2.3 Analog Devices Unidirectional Level Translators Product and Services

9.2.4 Analog Devices Unidirectional Level Translators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Analog Devices Recent Developments/Updates

9.2.6 Analog Devices Competitive Strengths & Weaknesses

### 9.3 DIOO Microcircuits

9.3.1 DIOO Microcircuits Details

9.3.2 DIOO Microcircuits Major Business

9.3.3 DIOO Microcircuits Unidirectional Level Translators Product and Services

9.3.4 DIOO Microcircuits Unidirectional Level Translators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 DIOO Microcircuits Recent Developments/Updates

9.3.6 DIOO Microcircuits Competitive Strengths & Weaknesses

### 9.4 Diodes Incorporated

9.4.1 Diodes Incorporated Details

9.4.2 Diodes Incorporated Major Business

9.4.3 Diodes Incorporated Unidirectional Level Translators Product and Services

9.4.4 Diodes Incorporated Unidirectional Level Translators Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Diodes Incorporated Recent Developments/Updates

- 9.4.6 Diodes Incorporated Competitive Strengths & Weaknesses
- 9.5 ETEK Microelectronics
  - 9.5.1 ETEK Microelectronics Details
  - 9.5.2 ETEK Microelectronics Major Business
  - 9.5.3 ETEK Microelectronics Unidirectional Level Translators Product and Services
  - 9.5.4 ETEK Microelectronics Unidirectional Level Translators Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 ETEK Microelectronics Recent Developments/Updates
  - 9.5.6 ETEK Microelectronics 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 Unidirectional Level Translators Product and Services
  - 9.6.4 Microchip Technology Unidirectional Level Translators 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 NXP Semiconductors
  - 9.7.1 NXP Semiconductors Details
  - 9.7.2 NXP Semiconductors Major Business
  - 9.7.3 NXP Semiconductors Unidirectional Level Translators Product and Services
  - 9.7.4 NXP Semiconductors Unidirectional Level Translators Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 NXP Semiconductors Recent Developments/Updates
  - 9.7.6 NXP Semiconductors Competitive Strengths & Weaknesses
- 9.8 Nexperia
  - 9.8.1 Nexperia Details
  - 9.8.2 Nexperia Major Business
  - 9.8.3 Nexperia Unidirectional Level Translators Product and Services
  - 9.8.4 Nexperia Unidirectional Level Translators Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Nexperia Recent Developments/Updates
  - 9.8.6 Nexperia Competitive Strengths & Weaknesses
- 9.9 Renesas Electronics
  - 9.9.1 Renesas Electronics Details
  - 9.9.2 Renesas Electronics Major Business
  - 9.9.3 Renesas Electronics Unidirectional Level Translators Product and Services
  - 9.9.4 Renesas Electronics Unidirectional Level Translators Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.9.5 Renesas Electronics Recent Developments/Updates
- 9.9.6 Renesas Electronics Competitive Strengths & Weaknesses
- 9.10 STMicroelectronics
  - 9.10.1 STMicroelectronics Details
  - 9.10.2 STMicroelectronics Major Business
  - 9.10.3 STMicroelectronics Unidirectional Level Translators Product and Services
  - 9.10.4 STMicroelectronics Unidirectional Level Translators Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 STMicroelectronics Recent Developments/Updates
  - 9.10.6 STMicroelectronics Competitive Strengths & Weaknesses
- 9.11 Texas Instruments
  - 9.11.1 Texas Instruments Details
  - 9.11.2 Texas Instruments Major Business
  - 9.11.3 Texas Instruments Unidirectional Level Translators Product and Services
  - 9.11.4 Texas Instruments Unidirectional Level Translators Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Texas Instruments Recent Developments/Updates
  - 9.11.6 Texas Instruments Competitive Strengths & Weaknesses
- 9.12 Toshiba
  - 9.12.1 Toshiba Details
  - 9.12.2 Toshiba Major Business
  - 9.12.3 Toshiba Unidirectional Level Translators Product and Services
  - 9.12.4 Toshiba Unidirectional Level Translators Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 Toshiba Recent Developments/Updates
  - 9.12.6 Toshiba Competitive Strengths & Weaknesses
- 9.13 onsemi
  - 9.13.1 onsemi Details
  - 9.13.2 onsemi Major Business
  - 9.13.3 onsemi Unidirectional Level Translators Product and Services
  - 9.13.4 onsemi Unidirectional Level Translators Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 onsemi Recent Developments/Updates
  - 9.13.6 onsemi Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Unidirectional Level Translators Industry Chain
- 10.2 Unidirectional Level Translators Upstream Analysis

- 10.2.1 Unidirectional Level Translators Core Raw Materials
- 10.2.2 Main Manufacturers of Unidirectional Level Translators Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Unidirectional Level Translators Production Mode
- 10.6 Unidirectional Level Translators Procurement Model
- 10.7 Unidirectional Level Translators Industry Sales Model and Sales Channels
  - 10.7.1 Unidirectional Level Translators Sales Model
  - 10.7.2 Unidirectional Level Translators 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 Unidirectional Level Translators Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Unidirectional Level Translators Production Value by Region (2021-2026) & (USD Million)

Table 3. World Unidirectional Level Translators Production Value by Region (2027-2032) & (USD Million)

Table 4. World Unidirectional Level Translators Production Value Market Share by Region (2021-2026)

Table 5. World Unidirectional Level Translators Production Value Market Share by Region (2027-2032)

Table 6. World Unidirectional Level Translators Production by Region (2021-2026) & (Million Units)

Table 7. World Unidirectional Level Translators Production by Region (2027-2032) & (Million Units)

Table 8. World Unidirectional Level Translators Production Market Share by Region (2021-2026)

Table 9. World Unidirectional Level Translators Production Market Share by Region (2027-2032)

Table 10. World Unidirectional Level Translators Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Unidirectional Level Translators Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Unidirectional Level Translators Major Market Trends

Table 13. World Unidirectional Level Translators Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World Unidirectional Level Translators Consumption by Region (2021-2026) & (Million Units)

Table 15. World Unidirectional Level Translators Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World Unidirectional Level Translators Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Unidirectional Level Translators Producers in 2025

Table 18. World Unidirectional Level Translators Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key Unidirectional Level Translators Producers in 2025

Table 20. World Unidirectional Level Translators Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Unidirectional Level Translators Company Evaluation Quadrant

Table 22. World Unidirectional Level Translators Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Unidirectional Level Translators Production Site of Key Manufacturer

Table 24. Unidirectional Level Translators Market: Company Product Type Footprint

Table 25. Unidirectional Level Translators Market: Company Product Application Footprint

Table 26. Unidirectional Level Translators Competitive Factors

Table 27. Unidirectional Level Translators New Entrant and Capacity Expansion Plans

Table 28. Unidirectional Level Translators Mergers & Acquisitions Activity

Table 29. United States VS China Unidirectional Level Translators Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Unidirectional Level Translators Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China Unidirectional Level Translators Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based Unidirectional Level Translators Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Unidirectional Level Translators Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Unidirectional Level Translators Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Unidirectional Level Translators Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers Unidirectional Level Translators Production Market Share (2021-2026)

Table 37. China Based Unidirectional Level Translators Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Unidirectional Level Translators Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Unidirectional Level Translators Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Unidirectional Level Translators Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers Unidirectional Level Translators Production Market Share (2021-2026)

Table 42. Rest of World Based Unidirectional Level Translators Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Unidirectional Level Translators Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Unidirectional Level Translators Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Unidirectional Level Translators Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers Unidirectional Level Translators Production Market Share (2021-2026)

Table 47. World Unidirectional Level Translators Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Unidirectional Level Translators Production by Type (2021-2026) & (Million Units)

Table 49. World Unidirectional Level Translators Production by Type (2027-2032) & (Million Units)

Table 50. World Unidirectional Level Translators Production Value by Type (2021-2026) & (USD Million)

Table 51. World Unidirectional Level Translators Production Value by Type (2027-2032) & (USD Million)

Table 52. World Unidirectional Level Translators Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Unidirectional Level Translators Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Unidirectional Level Translators Production Value by Power Architecture, (USD Million), 2021 & 2025 & 2032

Table 55. World Unidirectional Level Translators Production by Power Architecture (2021-2026) & (Million Units)

Table 56. World Unidirectional Level Translators Production by Power Architecture (2027-2032) & (Million Units)

Table 57. World Unidirectional Level Translators Production Value by Power Architecture (2021-2026) & (USD Million)

Table 58. World Unidirectional Level Translators Production Value by Power Architecture (2027-2032) & (USD Million)

Table 59. World Unidirectional Level Translators Average Price by Power Architecture (2021-2026) & (US\$/Unit)

Table 60. World Unidirectional Level Translators Average Price by Power Architecture

(2027-2032) & (US\$/Unit)

Table 61. World Unidirectional Level Translators Production Value by Direction Configuration Method, (USD Million), 2021 & 2025 & 2032

Table 62. World Unidirectional Level Translators Production by Direction Configuration Method (2021-2026) & (Million Units)

Table 63. World Unidirectional Level Translators Production by Direction Configuration Method (2027-2032) & (Million Units)

Table 64. World Unidirectional Level Translators Production Value by Direction Configuration Method (2021-2026) & (USD Million)

Table 65. World Unidirectional Level Translators Production Value by Direction Configuration Method (2027-2032) & (USD Million)

Table 66. World Unidirectional Level Translators Average Price by Direction Configuration Method (2021-2026) & (US\$/Unit)

Table 67. World Unidirectional Level Translators Average Price by Direction Configuration Method (2027-2032) & (US\$/Unit)

Table 68. World Unidirectional Level Translators Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Unidirectional Level Translators Production by Application (2021-2026) & (Million Units)

Table 70. World Unidirectional Level Translators Production by Application (2027-2032) & (Million Units)

Table 71. World Unidirectional Level Translators Production Value by Application (2021-2026) & (USD Million)

Table 72. World Unidirectional Level Translators Production Value by Application (2027-2032) & (USD Million)

Table 73. World Unidirectional Level Translators Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Unidirectional Level Translators Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. 3PEAK Basic Information, Manufacturing Base and Competitors

Table 76. 3PEAK Major Business

Table 77. 3PEAK Unidirectional Level Translators Product and Services

Table 78. 3PEAK Unidirectional Level Translators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. 3PEAK Recent Developments/Updates

Table 80. 3PEAK Competitive Strengths & Weaknesses

Table 81. Analog Devices Basic Information, Manufacturing Base and Competitors

Table 82. Analog Devices Major Business

Table 83. Analog Devices Unidirectional Level Translators Product and Services

Table 84. Analog Devices Unidirectional Level Translators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Analog Devices Recent Developments/Updates

Table 86. Analog Devices Competitive Strengths & Weaknesses

Table 87. DIOO Microcircuits Basic Information, Manufacturing Base and Competitors

Table 88. DIOO Microcircuits Major Business

Table 89. DIOO Microcircuits Unidirectional Level Translators Product and Services

Table 90. DIOO Microcircuits Unidirectional Level Translators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. DIOO Microcircuits Recent Developments/Updates

Table 92. DIOO Microcircuits Competitive Strengths & Weaknesses

Table 93. Diodes Incorporated Basic Information, Manufacturing Base and Competitors

Table 94. Diodes Incorporated Major Business

Table 95. Diodes Incorporated Unidirectional Level Translators Product and Services

Table 96. Diodes Incorporated Unidirectional Level Translators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Diodes Incorporated Recent Developments/Updates

Table 98. Diodes Incorporated Competitive Strengths & Weaknesses

Table 99. ETEK Microelectronics Basic Information, Manufacturing Base and Competitors

Table 100. ETEK Microelectronics Major Business

Table 101. ETEK Microelectronics Unidirectional Level Translators Product and Services

Table 102. ETEK Microelectronics Unidirectional Level Translators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. ETEK Microelectronics Recent Developments/Updates

Table 104. ETEK Microelectronics Competitive Strengths & Weaknesses

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

Table 106. Microchip Technology Major Business

Table 107. Microchip Technology Unidirectional Level Translators Product and Services

Table 108. Microchip Technology Unidirectional Level Translators 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. NXP Semiconductors Basic Information, Manufacturing Base and Competitors
- Table 112. NXP Semiconductors Major Business
- Table 113. NXP Semiconductors Unidirectional Level Translators Product and Services
- Table 114. NXP Semiconductors Unidirectional Level Translators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. NXP Semiconductors Recent Developments/Updates
- Table 116. NXP Semiconductors Competitive Strengths & Weaknesses
- Table 117. Nexperia Basic Information, Manufacturing Base and Competitors
- Table 118. Nexperia Major Business
- Table 119. Nexperia Unidirectional Level Translators Product and Services
- Table 120. Nexperia Unidirectional Level Translators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Nexperia Recent Developments/Updates
- Table 122. Nexperia Competitive Strengths & Weaknesses
- Table 123. Renesas Electronics Basic Information, Manufacturing Base and Competitors
- Table 124. Renesas Electronics Major Business
- Table 125. Renesas Electronics Unidirectional Level Translators Product and Services
- Table 126. Renesas Electronics Unidirectional Level Translators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Renesas Electronics Recent Developments/Updates
- Table 128. Renesas Electronics Competitive Strengths & Weaknesses
- Table 129. STMicroelectronics Basic Information, Manufacturing Base and Competitors
- Table 130. STMicroelectronics Major Business
- Table 131. STMicroelectronics Unidirectional Level Translators Product and Services
- Table 132. STMicroelectronics Unidirectional Level Translators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. STMicroelectronics Recent Developments/Updates
- Table 134. STMicroelectronics Competitive Strengths & Weaknesses
- Table 135. Texas Instruments Basic Information, Manufacturing Base and Competitors
- Table 136. Texas Instruments Major Business
- Table 137. Texas Instruments Unidirectional Level Translators Product and Services

Table 138. Texas Instruments Unidirectional Level Translators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Texas Instruments Recent Developments/Updates

Table 140. Texas Instruments Competitive Strengths & Weaknesses

Table 141. Toshiba Basic Information, Manufacturing Base and Competitors

Table 142. Toshiba Major Business

Table 143. Toshiba Unidirectional Level Translators Product and Services

Table 144. Toshiba Unidirectional Level Translators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Toshiba Recent Developments/Updates

Table 146. Toshiba Competitive Strengths & Weaknesses

Table 147. onsemi Basic Information, Manufacturing Base and Competitors

Table 148. onsemi Major Business

Table 149. onsemi Unidirectional Level Translators Product and Services

Table 150. onsemi Unidirectional Level Translators Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. onsemi Recent Developments/Updates

Table 152. onsemi Competitive Strengths & Weaknesses

Table 153. Global Key Players of Unidirectional Level Translators Upstream (Raw Materials)

Table 154. Global Unidirectional Level Translators Typical Customers

Table 155. Unidirectional Level Translators Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Unidirectional Level Translators Picture

Figure 2. World Unidirectional Level Translators Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Unidirectional Level Translators Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Unidirectional Level Translators Production (2021-2032) & (Million Units)

Figure 5. World Unidirectional Level Translators Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Unidirectional Level Translators Production Value Market Share by Region (2021-2032)

Figure 7. World Unidirectional Level Translators Production Market Share by Region (2021-2032)

Figure 8. North America Unidirectional Level Translators Production (2021-2032) & (Million Units)

Figure 9. Europe Unidirectional Level Translators Production (2021-2032) & (Million Units)

Figure 10. China Unidirectional Level Translators Production (2021-2032) & (Million Units)

Figure 11. Japan Unidirectional Level Translators Production (2021-2032) & (Million Units)

Figure 12. South Korea Unidirectional Level Translators Production (2021-2032) & (Million Units)

Figure 13. Unidirectional Level Translators Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Unidirectional Level Translators Consumption (2021-2032) & (Million Units)

Figure 16. World Unidirectional Level Translators Consumption Market Share by Region (2021-2032)

Figure 17. United States Unidirectional Level Translators Consumption (2021-2032) & (Million Units)

Figure 18. China Unidirectional Level Translators Consumption (2021-2032) & (Million Units)

Figure 19. Europe Unidirectional Level Translators Consumption (2021-2032) & (Million Units)

Figure 20. Japan Unidirectional Level Translators Consumption (2021-2032) & (Million Units)

Figure 21. South Korea Unidirectional Level Translators Consumption (2021-2032) & (Million Units)

Figure 22. ASEAN Unidirectional Level Translators Consumption (2021-2032) & (Million Units)

Figure 23. India Unidirectional Level Translators Consumption (2021-2032) & (Million Units)

Figure 24. Producer Shipments of Unidirectional Level Translators by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Unidirectional Level Translators Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Unidirectional Level Translators Markets in 2025

Figure 27. United States VS China: Unidirectional Level Translators Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Unidirectional Level Translators Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Unidirectional Level Translators Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Unidirectional Level Translators Production Market Share 2025

Figure 31. China Based Manufacturers Unidirectional Level Translators Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Unidirectional Level Translators Production Market Share 2025

Figure 33. World Unidirectional Level Translators Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Unidirectional Level Translators Production Value Market Share by Type in 2025

Figure 35. Single-Channel

Figure 36. Dual-Channel

Figure 37. Multi-Channel

Figure 38. World Unidirectional Level Translators Production Market Share by Type (2021-2032)

Figure 39. World Unidirectional Level Translators Production Value Market Share by Type (2021-2032)

Figure 40. World Unidirectional Level Translators Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Unidirectional Level Translators Production Value by Power Architecture, (USD Million), 2021 & 2025 & 2032

Figure 42. World Unidirectional Level Translators Production Value Market Share by Power Architecture in 2025

Figure 43. Single-Supply

Figure 44. Dual-Supply

Figure 45. World Unidirectional Level Translators Production Market Share by Power Architecture (2021-2032)

Figure 46. World Unidirectional Level Translators Production Value Market Share by Power Architecture (2021-2032)

Figure 47. World Unidirectional Level Translators Average Price by Power Architecture (2021-2032) & (US\$/Unit)

Figure 48. World Unidirectional Level Translators Production Value by Direction Configuration Method, (USD Million), 2021 & 2025 & 2032

Figure 49. World Unidirectional Level Translators Production Value Market Share by Direction Configuration Method in 2025

Figure 50. Fixed Direction

Figure 51. DIR Pin Configurable

Figure 52. World Unidirectional Level Translators Production Market Share by Direction Configuration Method (2021-2032)

Figure 53. World Unidirectional Level Translators Production Value Market Share by Direction Configuration Method (2021-2032)

Figure 54. World Unidirectional Level Translators Average Price by Direction Configuration Method (2021-2032) & (US\$/Unit)

Figure 55. World Unidirectional Level Translators Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Unidirectional Level Translators Production Value Market Share by Application in 2025

Figure 57. Household Electrical Appliances

Figure 58. Industrial Automation

Figure 59. LED

Figure 60. Electrical and Electronic

Figure 61. Other

Figure 62. World Unidirectional Level Translators Production Market Share by Application (2021-2032)

Figure 63. World Unidirectional Level Translators Production Value Market Share by Application (2021-2032)

Figure 64. World Unidirectional Level Translators Average Price by Application (2021-2032) & (US\$/Unit)

Figure 65. Unidirectional Level Translators Industry Chain

Figure 66. Unidirectional Level Translators Procurement Model

Figure 67. Unidirectional Level Translators Sales Model

Figure 68. Unidirectional Level Translators Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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