

# Global Level Shifter IC Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Level Shifter IC market size is expected to reach \$ 2578 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

A level shifter IC is an interface device that enables digital signals to interoperate across different voltage domains. Its core value is to bridge low-voltage I/O from processors or SoCs with higher-voltage peripherals, or to connect buses and logic devices that follow different voltage standards, preventing incompatibility-related bit errors and device stress. In practice, it is commonly implemented as a dual-supply voltage translator or level shifter, offering unidirectional or bidirectional translation, either direction-pin controlled or auto-direction sensing, supporting push-pull and open-drain signaling, and scaling from single-bit to multi-channel, multi-bit configurations. For low-speed two-wire buses such as I2C and SMBus, level shifters often add buffering and bus-extension capability while preserving bus operating modes. As portable and low-power systems continue to move toward lower core and I/O voltages, demand is rising for mixed-voltage connectivity between 1.2 V and 1.8 V domains and 3.3 V or 5 V domains. Level shifters are therefore broadly embedded in smartphones and wearables, IoT sensing and control, industrial automation, automotive electronics, and server management and interface logic, serving as foundational “connectivity glue” for reliable cross-domain communication. In more specialized high-speed applications, level shifting is also optimized for specific links or protocols, for example translating low-voltage, AC-coupled HDMI or DVI signals into DC-coupled outputs compliant with the video interface standard. In power electronics, the concept further extends to level-shift needs in gate-driver chains, where low-voltage control must safely command high-side devices in high-voltage domains. Overall, level shifter ICs are primarily delivered as standard products, enabling fast design-in through broad voltage coverage, speed grades, and package options, while higher-reliability use cases capture additional value through qualification

and robust process design.

Level shifter ICs are foundational interface devices in mixed-voltage electronic systems, providing the critical function of cross-domain signal compatibility and protection. As processor and SoC I/O voltages continue to decline, low-voltage domains coexist for the long term with legacy 3.3 V and 5 V rails, making level shifting a standard requirement rather than an occasional workaround. Mainstream solutions are built around dual-supply voltage translators, offering a complete gradient from unidirectional to bidirectional paths, direction-pin control as well as auto-direction sensing, compatibility with push-pull and open-drain signaling, and scalable options from single-bit to multi-bit, multi-channel configurations across many packages. For engineering teams, the value extends beyond voltage matching at the electrical level: standardized devices and parametric selection move mixed-voltage interoperability risk upstream, shortening design iteration cycles and improving production consistency.

From an application perspective, demand for level shifting is clearly layered by scenario. General-purpose GPIO and multi-protocol board-level interconnects prioritize broad applicability and fast design-in, making auto-direction sensing and wide voltage coverage especially attractive. By contrast, open-drain two-wire buses such as I2C and SMBus emphasize preserving bus operating behavior; level shifters that incorporate buffering or bus-extension capability can improve interconnect distance and loading, a pattern that is particularly common in server management and multi-device board architectures. At the same time, level shifting is expanding toward interface-specific and higher-speed implementations. For example, dedicated HDMI and DVI level shifters translate low-voltage, AC-coupled signaling into DC-coupled outputs compliant with the interface standard, satisfying both protocol constraints and signal-integrity requirements. In power electronics, the level-shift concept further intersects with high-side gate-drive needs, creating a product spectrum and evaluation criteria distinct from general-purpose logic translators.

From an industry and competitive standpoint, level shifter ICs are primarily supplied as catalog standard products. Leading vendors serve diverse customer bases across consumer electronics, industrial automation, automotive electronics, and servers through broad parametric coverage and mature ecosystem support. As high-reliability applications grow in share, automotive qualification and long-term supply assurance are raising the bar, with certification and robust reliability design becoming key sources of pricing power. Domestic suppliers are rapidly strengthening portfolios in general-purpose translators and bus-oriented level shifters; combined with localized delivery and supply-chain advantages, they are positioned to expand penetration in cost-sensitive

and high-volume standard parts. Looking forward, continued voltage scaling, the persistent coexistence of multiple voltage domains, interface specialization, and package miniaturization will jointly drive product iteration, while the overall market remains supported by the structural increase in system complexity across end equipment.

This report studies the global Level Shifter IC production, demand, key manufacturers, and key regions.

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

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

Global Level Shifter IC total production and demand, 2021-2032, (K Units)

Global Level Shifter IC total production value, 2021-2032, (USD Million)

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

Global Level Shifter IC consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Level Shifter IC domestic production, consumption, key domestic manufacturers and share

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

Global Level Shifter IC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Level Shifter IC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Level Shifter IC 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 Texas Instruments, Nexperia, NXP Semiconductors, onsemi, Analog Devices, Toshiba, Diodes Incorporated, Renesas Electronics, STMicroelectronics, Infineon Technologies, 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 Level Shifter IC market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Level Shifter IC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Level Shifter IC Market, Segmentation by Type:

1-2 Channels

4-8 Channels

10-32 Channels

Others

### Global Level Shifter IC Market, Segmentation by Signal Topology:

Open-Drain

Push-Pull

### Global Level Shifter IC Market, Segmentation by Direction Mode:

Unidirectional

Bidirectional

### Global Level Shifter IC Market, Segmentation by Application:

Cell Phone

Computer

Television

Camera

Others

### Companies Profiled:

Texas Instruments

Nexperia

NXP Semiconductors

onsemi

Analog Devices

Toshiba

Diodes Incorporated

Renesas Electronics

STMicroelectronics

Infineon Technologies

Wuxi ETEK Micro-Electronics

Parade Technologies

Jiangsu Runic Technology

### **Key Questions Answered:**

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

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

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

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

- 4.4.2 United States Based Manufacturers Level Shifter IC Production Value (2021-2026)
- 4.4.3 United States Based Manufacturers Level Shifter IC Production (2021-2026)
- 4.5 China Based Level Shifter IC Manufacturers and Market Share
  - 4.5.1 China Based Level Shifter IC Manufacturers, Headquarters and Production Site (Province, Country)
  - 4.5.2 China Based Manufacturers Level Shifter IC Production Value (2021-2026)
  - 4.5.3 China Based Manufacturers Level Shifter IC Production (2021-2026)
- 4.6 Rest of World Based Level Shifter IC Manufacturers and Market Share, 2021-2026
  - 4.6.1 Rest of World Based Level Shifter IC Manufacturers, Headquarters and Production Site (State, Country)
  - 4.6.2 Rest of World Based Manufacturers Level Shifter IC Production Value (2021-2026)
  - 4.6.3 Rest of World Based Manufacturers Level Shifter IC Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

- 5.1 World Level Shifter IC Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
  - 5.2.1 1-2 Channels
  - 5.2.2 4-8 Channels
  - 5.2.3 10-32 Channels
  - 5.2.4 Others
- 5.3 Market Segment by Type
  - 5.3.1 World Level Shifter IC Production by Type (2021-2032)
  - 5.3.2 World Level Shifter IC Production Value by Type (2021-2032)
  - 5.3.3 World Level Shifter IC Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY SIGNAL TOPOLOGY**

- 6.1 World Level Shifter IC Market Size Overview by Signal Topology: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Signal Topology
  - 6.2.1 Open-Drain
  - 6.2.2 Push-Pull
- 6.3 Market Segment by Signal Topology
  - 6.3.1 World Level Shifter IC Production by Signal Topology (2021-2032)
  - 6.3.2 World Level Shifter IC Production Value by Signal Topology (2021-2032)
  - 6.3.3 World Level Shifter IC Average Price by Signal Topology (2021-2032)

## **7 MARKET ANALYSIS BY DIRECTION MODE**

7.1 World Level Shifter IC Market Size Overview by Direction Mode: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Direction Mode

7.2.1 Unidirectional

7.2.2 Bidirectional

7.3 Market Segment by Direction Mode

7.3.1 World Level Shifter IC Production by Direction Mode (2021-2032)

7.3.2 World Level Shifter IC Production Value by Direction Mode (2021-2032)

7.3.3 World Level Shifter IC Average Price by Direction Mode (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Level Shifter IC Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Cell Phone

8.2.2 Computer

8.2.3 Television

8.2.4 Camera

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Level Shifter IC Production by Application (2021-2032)

8.3.2 World Level Shifter IC Production Value by Application (2021-2032)

8.3.3 World Level Shifter IC Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 Texas Instruments

9.1.1 Texas Instruments Details

9.1.2 Texas Instruments Major Business

9.1.3 Texas Instruments Level Shifter IC Product and Services

9.1.4 Texas Instruments Level Shifter IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Texas Instruments Recent Developments/Updates

9.1.6 Texas Instruments Competitive Strengths & Weaknesses

9.2 Nexperia

9.2.1 Nexperia Details

- 9.2.2 Nexperia Major Business
- 9.2.3 Nexperia Level Shifter IC Product and Services
- 9.2.4 Nexperia Level Shifter IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Nexperia Recent Developments/Updates
- 9.2.6 Nexperia Competitive Strengths & Weaknesses
- 9.3 NXP Semiconductors
  - 9.3.1 NXP Semiconductors Details
  - 9.3.2 NXP Semiconductors Major Business
  - 9.3.3 NXP Semiconductors Level Shifter IC Product and Services
  - 9.3.4 NXP Semiconductors Level Shifter IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 NXP Semiconductors Recent Developments/Updates
  - 9.3.6 NXP Semiconductors Competitive Strengths & Weaknesses
- 9.4 onsemi
  - 9.4.1 onsemi Details
  - 9.4.2 onsemi Major Business
  - 9.4.3 onsemi Level Shifter IC Product and Services
  - 9.4.4 onsemi Level Shifter IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.4.5 onsemi Recent Developments/Updates
  - 9.4.6 onsemi Competitive Strengths & Weaknesses
- 9.5 Analog Devices
  - 9.5.1 Analog Devices Details
  - 9.5.2 Analog Devices Major Business
  - 9.5.3 Analog Devices Level Shifter IC Product and Services
  - 9.5.4 Analog Devices Level Shifter IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Analog Devices Recent Developments/Updates
  - 9.5.6 Analog Devices Competitive Strengths & Weaknesses
- 9.6 Toshiba
  - 9.6.1 Toshiba Details
  - 9.6.2 Toshiba Major Business
  - 9.6.3 Toshiba Level Shifter IC Product and Services
  - 9.6.4 Toshiba Level Shifter IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Toshiba Recent Developments/Updates
  - 9.6.6 Toshiba Competitive Strengths & Weaknesses
- 9.7 Diodes Incorporated

- 9.7.1 Diodes Incorporated Details
- 9.7.2 Diodes Incorporated Major Business
- 9.7.3 Diodes Incorporated Level Shifter IC Product and Services
- 9.7.4 Diodes Incorporated Level Shifter IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Diodes Incorporated Recent Developments/Updates
- 9.7.6 Diodes Incorporated Competitive Strengths & Weaknesses
- 9.8 Renesas Electronics
  - 9.8.1 Renesas Electronics Details
  - 9.8.2 Renesas Electronics Major Business
  - 9.8.3 Renesas Electronics Level Shifter IC Product and Services
  - 9.8.4 Renesas Electronics Level Shifter IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Renesas Electronics Recent Developments/Updates
  - 9.8.6 Renesas Electronics Competitive Strengths & Weaknesses
- 9.9 STMicroelectronics
  - 9.9.1 STMicroelectronics Details
  - 9.9.2 STMicroelectronics Major Business
  - 9.9.3 STMicroelectronics Level Shifter IC Product and Services
  - 9.9.4 STMicroelectronics Level Shifter IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 STMicroelectronics Recent Developments/Updates
  - 9.9.6 STMicroelectronics Competitive Strengths & Weaknesses
- 9.10 Infineon Technologies
  - 9.10.1 Infineon Technologies Details
  - 9.10.2 Infineon Technologies Major Business
  - 9.10.3 Infineon Technologies Level Shifter IC Product and Services
  - 9.10.4 Infineon Technologies Level Shifter IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Infineon Technologies Recent Developments/Updates
  - 9.10.6 Infineon Technologies Competitive Strengths & Weaknesses
- 9.11 Wuxi ETEK Micro-Electronics
  - 9.11.1 Wuxi ETEK Micro-Electronics Details
  - 9.11.2 Wuxi ETEK Micro-Electronics Major Business
  - 9.11.3 Wuxi ETEK Micro-Electronics Level Shifter IC Product and Services
  - 9.11.4 Wuxi ETEK Micro-Electronics Level Shifter IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Wuxi ETEK Micro-Electronics Recent Developments/Updates
  - 9.11.6 Wuxi ETEK Micro-Electronics Competitive Strengths & Weaknesses

## 9.12 Parade Technologies

### 9.12.1 Parade Technologies Details

### 9.12.2 Parade Technologies Major Business

### 9.12.3 Parade Technologies Level Shifter IC Product and Services

### 9.12.4 Parade Technologies Level Shifter IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.12.5 Parade Technologies Recent Developments/Updates

### 9.12.6 Parade Technologies Competitive Strengths & Weaknesses

## 9.13 Jiangsu Runic Technology

### 9.13.1 Jiangsu Runic Technology Details

### 9.13.2 Jiangsu Runic Technology Major Business

### 9.13.3 Jiangsu Runic Technology Level Shifter IC Product and Services

### 9.13.4 Jiangsu Runic Technology Level Shifter IC Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.13.5 Jiangsu Runic Technology Recent Developments/Updates

### 9.13.6 Jiangsu Runic Technology Competitive Strengths & Weaknesses

## 10 INDUSTRY CHAIN ANALYSIS

### 10.1 Level Shifter IC Industry Chain

### 10.2 Level Shifter IC Upstream Analysis

#### 10.2.1 Level Shifter IC Core Raw Materials

#### 10.2.2 Main Manufacturers of Level Shifter IC Core Raw Materials

### 10.3 Midstream Analysis

### 10.4 Downstream Analysis

### 10.5 Level Shifter IC Production Mode

### 10.6 Level Shifter IC Procurement Model

### 10.7 Level Shifter IC Industry Sales Model and Sales Channels

#### 10.7.1 Level Shifter IC Sales Model

#### 10.7.2 Level Shifter IC 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 Level Shifter IC Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Level Shifter IC Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Level Shifter IC Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Level Shifter IC Production Value Market Share by Region (2021-2026)
- Table 5. World Level Shifter IC Production Value Market Share by Region (2027-2032)
- Table 6. World Level Shifter IC Production by Region (2021-2026) & (K Units)
- Table 7. World Level Shifter IC Production by Region (2027-2032) & (K Units)
- Table 8. World Level Shifter IC Production Market Share by Region (2021-2026)
- Table 9. World Level Shifter IC Production Market Share by Region (2027-2032)
- Table 10. World Level Shifter IC Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Level Shifter IC Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Level Shifter IC Major Market Trends
- Table 13. World Level Shifter IC Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Level Shifter IC Consumption by Region (2021-2026) & (K Units)
- Table 15. World Level Shifter IC Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Level Shifter IC Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Level Shifter IC Producers in 2025
- Table 18. World Level Shifter IC Production by Manufacturer (2021-2026) & (K Units)
- Table 19. Production Market Share of Key Level Shifter IC Producers in 2025
- Table 20. World Level Shifter IC Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 21. Global Level Shifter IC Company Evaluation Quadrant
- Table 22. World Level Shifter IC Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Level Shifter IC Production Site of Key Manufacturer
- Table 24. Level Shifter IC Market: Company Product Type Footprint
- Table 25. Level Shifter IC Market: Company Product Application Footprint
- Table 26. Level Shifter IC Competitive Factors
- Table 27. Level Shifter IC New Entrant and Capacity Expansion Plans

Table 28. Level Shifter IC Mergers & Acquisitions Activity

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

Table 30. United States VS China Level Shifter IC Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Level Shifter IC Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

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

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

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

Table 35. United States Based Manufacturers Level Shifter IC Production (2021-2026) & (K Units)

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

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

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

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

Table 40. China Based Manufacturers Level Shifter IC Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Level Shifter IC Production Market Share (2021-2026)

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

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

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

Table 45. Rest of World Based Manufacturers Level Shifter IC Production, (2021-2026) & (K Units)

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

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

- Table 48. World Level Shifter IC Production by Type (2021-2026) & (K Units)
- Table 49. World Level Shifter IC Production by Type (2027-2032) & (K Units)
- Table 50. World Level Shifter IC Production Value by Type (2021-2026) & (USD Million)
- Table 51. World Level Shifter IC Production Value by Type (2027-2032) & (USD Million)
- Table 52. World Level Shifter IC Average Price by Type (2021-2026) & (US\$/Unit)
- Table 53. World Level Shifter IC Average Price by Type (2027-2032) & (US\$/Unit)
- Table 54. World Level Shifter IC Production Value by Signal Topology, (USD Million), 2021 & 2025 & 2032
- Table 55. World Level Shifter IC Production by Signal Topology (2021-2026) & (K Units)
- Table 56. World Level Shifter IC Production by Signal Topology (2027-2032) & (K Units)
- Table 57. World Level Shifter IC Production Value by Signal Topology (2021-2026) & (USD Million)
- Table 58. World Level Shifter IC Production Value by Signal Topology (2027-2032) & (USD Million)
- Table 59. World Level Shifter IC Average Price by Signal Topology (2021-2026) & (US\$/Unit)
- Table 60. World Level Shifter IC Average Price by Signal Topology (2027-2032) & (US\$/Unit)
- Table 61. World Level Shifter IC Production Value by Direction Mode, (USD Million), 2021 & 2025 & 2032
- Table 62. World Level Shifter IC Production by Direction Mode (2021-2026) & (K Units)
- Table 63. World Level Shifter IC Production by Direction Mode (2027-2032) & (K Units)
- Table 64. World Level Shifter IC Production Value by Direction Mode (2021-2026) & (USD Million)
- Table 65. World Level Shifter IC Production Value by Direction Mode (2027-2032) & (USD Million)
- Table 66. World Level Shifter IC Average Price by Direction Mode (2021-2026) & (US\$/Unit)
- Table 67. World Level Shifter IC Average Price by Direction Mode (2027-2032) & (US\$/Unit)
- Table 68. World Level Shifter IC Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 69. World Level Shifter IC Production by Application (2021-2026) & (K Units)
- Table 70. World Level Shifter IC Production by Application (2027-2032) & (K Units)
- Table 71. World Level Shifter IC Production Value by Application (2021-2026) & (USD Million)
- Table 72. World Level Shifter IC Production Value by Application (2027-2032) & (USD Million)
- Table 73. World Level Shifter IC Average Price by Application (2021-2026) & (US\$/Unit)

- Table 74. World Level Shifter IC Average Price by Application (2027-2032) & (US\$/Unit)
- Table 75. Texas Instruments Basic Information, Manufacturing Base and Competitors
- Table 76. Texas Instruments Major Business
- Table 77. Texas Instruments Level Shifter IC Product and Services
- Table 78. Texas Instruments Level Shifter IC Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 79. Texas Instruments Recent Developments/Updates
- Table 80. Texas Instruments Competitive Strengths & Weaknesses
- Table 81. Nexperia Basic Information, Manufacturing Base and Competitors
- Table 82. Nexperia Major Business
- Table 83. Nexperia Level Shifter IC Product and Services
- Table 84. Nexperia Level Shifter IC Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Nexperia Recent Developments/Updates
- Table 86. Nexperia Competitive Strengths & Weaknesses
- Table 87. NXP Semiconductors Basic Information, Manufacturing Base and Competitors
- Table 88. NXP Semiconductors Major Business
- Table 89. NXP Semiconductors Level Shifter IC Product and Services
- Table 90. NXP Semiconductors Level Shifter IC Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. NXP Semiconductors Recent Developments/Updates
- Table 92. NXP Semiconductors Competitive Strengths & Weaknesses
- Table 93. onsemi Basic Information, Manufacturing Base and Competitors
- Table 94. onsemi Major Business
- Table 95. onsemi Level Shifter IC Product and Services
- Table 96. onsemi Level Shifter IC Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. onsemi Recent Developments/Updates
- Table 98. onsemi Competitive Strengths & Weaknesses
- Table 99. Analog Devices Basic Information, Manufacturing Base and Competitors
- Table 100. Analog Devices Major Business
- Table 101. Analog Devices Level Shifter IC Product and Services
- Table 102. Analog Devices Level Shifter IC Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Analog Devices Recent Developments/Updates
- Table 104. Analog Devices Competitive Strengths & Weaknesses
- Table 105. Toshiba Basic Information, Manufacturing Base and Competitors
- Table 106. Toshiba Major Business

Table 107. Toshiba Level Shifter IC Product and Services

Table 108. Toshiba Level Shifter IC Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Toshiba Recent Developments/Updates

Table 110. Toshiba Competitive Strengths & Weaknesses

Table 111. Diodes Incorporated Basic Information, Manufacturing Base and Competitors

Table 112. Diodes Incorporated Major Business

Table 113. Diodes Incorporated Level Shifter IC Product and Services

Table 114. Diodes Incorporated Level Shifter IC Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Diodes Incorporated Recent Developments/Updates

Table 116. Diodes Incorporated Competitive Strengths & Weaknesses

Table 117. Renesas Electronics Basic Information, Manufacturing Base and Competitors

Table 118. Renesas Electronics Major Business

Table 119. Renesas Electronics Level Shifter IC Product and Services

Table 120. Renesas Electronics Level Shifter IC Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Renesas Electronics Recent Developments/Updates

Table 122. Renesas Electronics Competitive Strengths & Weaknesses

Table 123. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 124. STMicroelectronics Major Business

Table 125. STMicroelectronics Level Shifter IC Product and Services

Table 126. STMicroelectronics Level Shifter IC Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. STMicroelectronics Recent Developments/Updates

Table 128. STMicroelectronics Competitive Strengths & Weaknesses

Table 129. Infineon Technologies Basic Information, Manufacturing Base and Competitors

Table 130. Infineon Technologies Major Business

Table 131. Infineon Technologies Level Shifter IC Product and Services

Table 132. Infineon Technologies Level Shifter IC Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Infineon Technologies Recent Developments/Updates

Table 134. Infineon Technologies Competitive Strengths & Weaknesses

Table 135. Wuxi ETEK Micro-Electronics Basic Information, Manufacturing Base and Competitors

Table 136. Wuxi ETEK Micro-Electronics Major Business

Table 137. Wuxi ETEK Micro-Electronics Level Shifter IC Product and Services

Table 138. Wuxi ETEK Micro-Electronics Level Shifter IC Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Wuxi ETEK Micro-Electronics Recent Developments/Updates

Table 140. Wuxi ETEK Micro-Electronics Competitive Strengths & Weaknesses

Table 141. Parade Technologies Basic Information, Manufacturing Base and Competitors

Table 142. Parade Technologies Major Business

Table 143. Parade Technologies Level Shifter IC Product and Services

Table 144. Parade Technologies Level Shifter IC Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Parade Technologies Recent Developments/Updates

Table 146. Parade Technologies Competitive Strengths & Weaknesses

Table 147. Jiangsu Runic Technology Basic Information, Manufacturing Base and Competitors

Table 148. Jiangsu Runic Technology Major Business

Table 149. Jiangsu Runic Technology Level Shifter IC Product and Services

Table 150. Jiangsu Runic Technology Level Shifter IC Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Jiangsu Runic Technology Recent Developments/Updates

Table 152. Jiangsu Runic Technology Competitive Strengths & Weaknesses

Table 153. Global Key Players of Level Shifter IC Upstream (Raw Materials)

Table 154. Global Level Shifter IC Typical Customers

Table 155. Level Shifter IC Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Level Shifter IC Picture

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

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

Figure 4. World Level Shifter IC Production (2021-2032) & (K Units)

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

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

Figure 7. World Level Shifter IC Production Market Share by Region (2021-2032)

Figure 8. North America Level Shifter IC Production (2021-2032) & (K Units)

Figure 9. Europe Level Shifter IC Production (2021-2032) & (K Units)

Figure 10. China Level Shifter IC Production (2021-2032) & (K Units)

Figure 11. Japan Level Shifter IC Production (2021-2032) & (K Units)

Figure 12. South Korea Level Shifter IC Production (2021-2032) & (K Units)

Figure 13. Level Shifter IC Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Level Shifter IC Consumption (2021-2032) & (K Units)

Figure 16. World Level Shifter IC Consumption Market Share by Region (2021-2032)

Figure 17. United States Level Shifter IC Consumption (2021-2032) & (K Units)

Figure 18. China Level Shifter IC Consumption (2021-2032) & (K Units)

Figure 19. Europe Level Shifter IC Consumption (2021-2032) & (K Units)

Figure 20. Japan Level Shifter IC Consumption (2021-2032) & (K Units)

Figure 21. South Korea Level Shifter IC Consumption (2021-2032) & (K Units)

Figure 22. ASEAN Level Shifter IC Consumption (2021-2032) & (K Units)

Figure 23. India Level Shifter IC Consumption (2021-2032) & (K Units)

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

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

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

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

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

Figure 29. United States VS China: Level Shifter IC Consumption Market Share

Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Level Shifter IC Production Market Share 2025

Figure 31. China Based Manufacturers Level Shifter IC Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Level Shifter IC Production Market Share 2025

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

Figure 34. World Level Shifter IC Production Value Market Share by Type in 2025

Figure 35. 1-2 Channels

Figure 36. 4-8 Channels

Figure 37. 10-32 Channels

Figure 38. Others

Figure 39. World Level Shifter IC Production Market Share by Type (2021-2032)

Figure 40. World Level Shifter IC Production Value Market Share by Type (2021-2032)

Figure 41. World Level Shifter IC Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World Level Shifter IC Production Value by Signal Topology, (USD Million), 2021 & 2025 & 2032

Figure 43. World Level Shifter IC Production Value Market Share by Signal Topology in 2025

Figure 44. Open-Drain

Figure 45. Push-Pull

Figure 46. World Level Shifter IC Production Market Share by Signal Topology (2021-2032)

Figure 47. World Level Shifter IC Production Value Market Share by Signal Topology (2021-2032)

Figure 48. World Level Shifter IC Average Price by Signal Topology (2021-2032) & (US\$/Unit)

Figure 49. World Level Shifter IC Production Value by Direction Mode, (USD Million), 2021 & 2025 & 2032

Figure 50. World Level Shifter IC Production Value Market Share by Direction Mode in 2025

Figure 51. Unidirectional

Figure 52. Bidirectional

Figure 53. World Level Shifter IC Production Market Share by Direction Mode (2021-2032)

Figure 54. World Level Shifter IC Production Value Market Share by Direction Mode (2021-2032)

Figure 55. World Level Shifter IC Average Price by Direction Mode (2021-2032) &

(US\$/Unit)

Figure 56. World Level Shifter IC Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Level Shifter IC Production Value Market Share by Application in 2025

Figure 58. Cell Phone

Figure 59. Computer

Figure 60. Television

Figure 61. Camera

Figure 62. Others

Figure 63. World Level Shifter IC Production Market Share by Application (2021-2032)

Figure 64. World Level Shifter IC Production Value Market Share by Application (2021-2032)

Figure 65. World Level Shifter IC Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. Level Shifter IC Industry Chain

Figure 67. Level Shifter IC Procurement Model

Figure 68. Level Shifter IC Sales Model

Figure 69. Level Shifter IC Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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