

Global Smart Road Side Unit(RSU) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Smart Road Side Unit(RSU) market size is expected to reach \$ 766 million by 2032, rising at a market growth of 22.3% CAGR during the forecast period (2026-2032).

Smart Road Side Unit (RSU) is an intelligent roadside communication device deployed along transportation infrastructure to enable real-time interaction between vehicles, road systems, and traffic control platforms, supporting low-latency and high-reliability data transmission for advanced intelligent transportation services. Its advantages include strong data processing capability, high communication stability, wide environmental adaptability, and support for multi-scenario traffic coordination and safety applications. The capacity utilization rate in 2025 was 80%, and the industry's average gross margin was about 25%. In 2025, production totaled 51,389 units, with an average price of USD 3,600 per unit. Upstream, key inputs include communication chips and RF antenna modules, with representative suppliers such as Qualcomm, NXP, Huawei, and ZTE. The midstream segment focuses on system integration, protocol development, hardware assembly, and deployment optimization to ensure stable and secure system performance. Downstream applications are concentrated in highways and road traffic systems, with representative customers including China Communications Construction, China Railway Construction, Siemens, and Kapsch TrafficCom.

Smart Roadside Unit (RSU) is a communication device deployed along roadways, primarily designed to enable high-speed and reliable data exchange between vehicles and infrastructure (V2I), as well as between vehicles and pedestrians (V2P). Working in conjunction with On-Board Units (OBUs), RSUs typically utilize technologies such as Dedicated Short-Range Communications (DSRC) or Cellular Vehicle-to-Everything (C-V2X) to establish low-latency, high-reliability data links, thereby ensuring robust

information transmission in connected vehicle environments.

This report studies the global Smart Road Side Unit(RSU) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Smart Road Side Unit(RSU) 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 Smart Road Side Unit(RSU) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Smart Road Side Unit(RSU) total production and demand, 2021-2032, (K Units)

Global Smart Road Side Unit(RSU) total production value, 2021-2032, (USD Million)

Global Smart Road Side Unit(RSU) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Smart Road Side Unit(RSU) consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Smart Road Side Unit(RSU) domestic production, consumption, key domestic manufacturers and share

Global Smart Road Side Unit(RSU) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Smart Road Side Unit(RSU) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Smart Road Side Unit(RSU) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Smart Road Side Unit(RSU) 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 Yunex Traffic, Danlaw Inc., Genvict Technologies, TransInfo Technology, Kapsch TrafficCom, Keysight, Iteris, Huawei, Commsignia, Gosuncn Technology, 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 Smart Road Side Unit(RSU) 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 Smart Road Side Unit(RSU) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Smart Road Side Unit(RSU) Market, Segmentation by Type:

4G Smart Roadside Unit

5G Smart Roadside Unit

Global Smart Road Side Unit(RSU) Market, Segmentation by Technology:

Multi-antenna

Single-antenna

Global Smart Road Side Unit(RSU) Market, Segmentation by Power Supply:

Power Grid

Solar Energy

Global Smart Road Side Unit(RSU) Market, Segmentation by Application:

Highway

Road Traffic

Companies Profiled:

Yunex Traffic

Danlaw Inc.

Genvict Technologies

TransInfo Technology

Kapsch TrafficCom

Keysight

Iteris

Huawei

Commsignia

Gosuncn Technology

Unex Technology

HARMAN

StarPoint

ZTE

SWARCO

V2ROADS

Key Questions Answered:

1. How big is the global Smart Road Side Unit(RSU) market?
2. What is the demand of the global Smart Road Side Unit(RSU) market?
3. What is the year over year growth of the global Smart Road Side Unit(RSU) market?
4. What is the production and production value of the global Smart Road Side Unit(RSU) market?
5. Who are the key producers in the global Smart Road Side Unit(RSU) market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

4.4 United States Based Smart Road Side Unit(RSU) Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Smart Road Side Unit(RSU) Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Smart Road Side Unit(RSU) Production Value (2021-2026)

4.4.3 United States Based Manufacturers Smart Road Side Unit(RSU) Production (2021-2026)

4.5 China Based Smart Road Side Unit(RSU) Manufacturers and Market Share

4.5.1 China Based Smart Road Side Unit(RSU) Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Smart Road Side Unit(RSU) Production Value (2021-2026)

4.5.3 China Based Manufacturers Smart Road Side Unit(RSU) Production (2021-2026)

4.6 Rest of World Based Smart Road Side Unit(RSU) Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Smart Road Side Unit(RSU) Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Smart Road Side Unit(RSU) Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Smart Road Side Unit(RSU) Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Smart Road Side Unit(RSU) Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 4G Smart Roadside Unit

5.2.2 5G Smart Roadside Unit

5.3 Market Segment by Type

5.3.1 World Smart Road Side Unit(RSU) Production by Type (2021-2032)

5.3.2 World Smart Road Side Unit(RSU) Production Value by Type (2021-2032)

5.3.3 World Smart Road Side Unit(RSU) Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY TECHNOLOGY

6.1 World Smart Road Side Unit(RSU) Market Size Overview by Technology: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Technology

6.2.1 Multi-antenna

6.2.2 Single-antenna

6.3 Market Segment by Technology

6.3.1 World Smart Road Side Unit(RSU) Production by Technology (2021-2032)

6.3.2 World Smart Road Side Unit(RSU) Production Value by Technology (2021-2032)

6.3.3 World Smart Road Side Unit(RSU) Average Price by Technology (2021-2032)

7 MARKET ANALYSIS BY POWER SUPPLY

7.1 World Smart Road Side Unit(RSU) Market Size Overview by Power Supply: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Power Supply

7.2.1 Power Grid

7.2.2 Solar Energy

7.3 Market Segment by Power Supply

7.3.1 World Smart Road Side Unit(RSU) Production by Power Supply (2021-2032)

7.3.2 World Smart Road Side Unit(RSU) Production Value by Power Supply (2021-2032)

7.3.3 World Smart Road Side Unit(RSU) Average Price by Power Supply (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Smart Road Side Unit(RSU) Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Highway

8.2.2 Road Traffic

8.3 Market Segment by Application

8.3.1 World Smart Road Side Unit(RSU) Production by Application (2021-2032)

8.3.2 World Smart Road Side Unit(RSU) Production Value by Application (2021-2032)

8.3.3 World Smart Road Side Unit(RSU) Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Yunex Traffic

9.1.1 Yunex Traffic Details

9.1.2 Yunex Traffic Major Business

9.1.3 Yunex Traffic Smart Road Side Unit(RSU) Product and Services

- 9.1.4 Yunex Traffic Smart Road Side Unit(RSU) Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Yunex Traffic Recent Developments/Updates
- 9.1.6 Yunex Traffic Competitive Strengths & Weaknesses
- 9.2 Danlaw Inc.
 - 9.2.1 Danlaw Inc. Details
 - 9.2.2 Danlaw Inc. Major Business
 - 9.2.3 Danlaw Inc. Smart Road Side Unit(RSU) Product and Services
 - 9.2.4 Danlaw Inc. Smart Road Side Unit(RSU) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Danlaw Inc. Recent Developments/Updates
 - 9.2.6 Danlaw Inc. Competitive Strengths & Weaknesses
- 9.3 Genvict Technologies
 - 9.3.1 Genvict Technologies Details
 - 9.3.2 Genvict Technologies Major Business
 - 9.3.3 Genvict Technologies Smart Road Side Unit(RSU) Product and Services
 - 9.3.4 Genvict Technologies Smart Road Side Unit(RSU) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Genvict Technologies Recent Developments/Updates
 - 9.3.6 Genvict Technologies Competitive Strengths & Weaknesses
- 9.4 TransInfo Technology
 - 9.4.1 TransInfo Technology Details
 - 9.4.2 TransInfo Technology Major Business
 - 9.4.3 TransInfo Technology Smart Road Side Unit(RSU) Product and Services
 - 9.4.4 TransInfo Technology Smart Road Side Unit(RSU) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 TransInfo Technology Recent Developments/Updates
 - 9.4.6 TransInfo Technology Competitive Strengths & Weaknesses
- 9.5 Kapsch TrafficCom
 - 9.5.1 Kapsch TrafficCom Details
 - 9.5.2 Kapsch TrafficCom Major Business
 - 9.5.3 Kapsch TrafficCom Smart Road Side Unit(RSU) Product and Services
 - 9.5.4 Kapsch TrafficCom Smart Road Side Unit(RSU) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Kapsch TrafficCom Recent Developments/Updates
 - 9.5.6 Kapsch TrafficCom Competitive Strengths & Weaknesses
- 9.6 Keysight
 - 9.6.1 Keysight Details
 - 9.6.2 Keysight Major Business

- 9.6.3 Keysight Smart Road Side Unit(RSU) Product and Services
- 9.6.4 Keysight Smart Road Side Unit(RSU) Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Keysight Recent Developments/Updates
- 9.6.6 Keysight Competitive Strengths & Weaknesses
- 9.7 Iteris
 - 9.7.1 Iteris Details
 - 9.7.2 Iteris Major Business
 - 9.7.3 Iteris Smart Road Side Unit(RSU) Product and Services
 - 9.7.4 Iteris Smart Road Side Unit(RSU) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Iteris Recent Developments/Updates
 - 9.7.6 Iteris Competitive Strengths & Weaknesses
- 9.8 Huawei
 - 9.8.1 Huawei Details
 - 9.8.2 Huawei Major Business
 - 9.8.3 Huawei Smart Road Side Unit(RSU) Product and Services
 - 9.8.4 Huawei Smart Road Side Unit(RSU) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Huawei Recent Developments/Updates
 - 9.8.6 Huawei Competitive Strengths & Weaknesses
- 9.9 Commsignia
 - 9.9.1 Commsignia Details
 - 9.9.2 Commsignia Major Business
 - 9.9.3 Commsignia Smart Road Side Unit(RSU) Product and Services
 - 9.9.4 Commsignia Smart Road Side Unit(RSU) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Commsignia Recent Developments/Updates
 - 9.9.6 Commsignia Competitive Strengths & Weaknesses
- 9.10 Gosuncn Technology
 - 9.10.1 Gosuncn Technology Details
 - 9.10.2 Gosuncn Technology Major Business
 - 9.10.3 Gosuncn Technology Smart Road Side Unit(RSU) Product and Services
 - 9.10.4 Gosuncn Technology Smart Road Side Unit(RSU) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Gosuncn Technology Recent Developments/Updates
 - 9.10.6 Gosuncn Technology Competitive Strengths & Weaknesses
- 9.11 Unex Technology
 - 9.11.1 Unex Technology Details

9.11.2 Unex Technology Major Business

9.11.3 Unex Technology Smart Road Side Unit(RSU) Product and Services

9.11.4 Unex Technology Smart Road Side Unit(RSU) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Unex Technology Recent Developments/Updates

9.11.6 Unex Technology Competitive Strengths & Weaknesses

9.12 HARMAN

9.12.1 HARMAN Details

9.12.2 HARMAN Major Business

9.12.3 HARMAN Smart Road Side Unit(RSU) Product and Services

9.12.4 HARMAN Smart Road Side Unit(RSU) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 HARMAN Recent Developments/Updates

9.12.6 HARMAN Competitive Strengths & Weaknesses

9.13 StarPoint

9.13.1 StarPoint Details

9.13.2 StarPoint Major Business

9.13.3 StarPoint Smart Road Side Unit(RSU) Product and Services

9.13.4 StarPoint Smart Road Side Unit(RSU) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 StarPoint Recent Developments/Updates

9.13.6 StarPoint Competitive Strengths & Weaknesses

9.14 ZTE

9.14.1 ZTE Details

9.14.2 ZTE Major Business

9.14.3 ZTE Smart Road Side Unit(RSU) Product and Services

9.14.4 ZTE Smart Road Side Unit(RSU) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 ZTE Recent Developments/Updates

9.14.6 ZTE Competitive Strengths & Weaknesses

9.15 SWARCO

9.15.1 SWARCO Details

9.15.2 SWARCO Major Business

9.15.3 SWARCO Smart Road Side Unit(RSU) Product and Services

9.15.4 SWARCO Smart Road Side Unit(RSU) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 SWARCO Recent Developments/Updates

9.15.6 SWARCO Competitive Strengths & Weaknesses

9.16 V2ROADS

- 9.16.1 V2ROADS Details
- 9.16.2 V2ROADS Major Business
- 9.16.3 V2ROADS Smart Road Side Unit(RSU) Product and Services
- 9.16.4 V2ROADS Smart Road Side Unit(RSU) Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.16.5 V2ROADS Recent Developments/Updates
- 9.16.6 V2ROADS Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Smart Road Side Unit(RSU) Industry Chain
- 10.2 Smart Road Side Unit(RSU) Upstream Analysis
 - 10.2.1 Smart Road Side Unit(RSU) Core Raw Materials
 - 10.2.2 Main Manufacturers of Smart Road Side Unit(RSU) Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Smart Road Side Unit(RSU) Production Mode
- 10.6 Smart Road Side Unit(RSU) Procurement Model
- 10.7 Smart Road Side Unit(RSU) Industry Sales Model and Sales Channels
 - 10.7.1 Smart Road Side Unit(RSU) Sales Model
 - 10.7.2 Smart Road Side Unit(RSU) 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 Smart Road Side Unit(RSU) Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Smart Road Side Unit(RSU) Production Value by Region (2021-2026) & (USD Million)

Table 3. World Smart Road Side Unit(RSU) Production Value by Region (2027-2032) & (USD Million)

Table 4. World Smart Road Side Unit(RSU) Production Value Market Share by Region (2021-2026)

Table 5. World Smart Road Side Unit(RSU) Production Value Market Share by Region (2027-2032)

Table 6. World Smart Road Side Unit(RSU) Production by Region (2021-2026) & (K Units)

Table 7. World Smart Road Side Unit(RSU) Production by Region (2027-2032) & (K Units)

Table 8. World Smart Road Side Unit(RSU) Production Market Share by Region (2021-2026)

Table 9. World Smart Road Side Unit(RSU) Production Market Share by Region (2027-2032)

Table 10. World Smart Road Side Unit(RSU) Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Smart Road Side Unit(RSU) Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Smart Road Side Unit(RSU) Major Market Trends

Table 13. World Smart Road Side Unit(RSU) Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Smart Road Side Unit(RSU) Consumption by Region (2021-2026) & (K Units)

Table 15. World Smart Road Side Unit(RSU) Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Smart Road Side Unit(RSU) Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Smart Road Side Unit(RSU) Producers in 2025

Table 18. World Smart Road Side Unit(RSU) Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Smart Road Side Unit(RSU) Producers in 2025

Table 20. World Smart Road Side Unit(RSU) Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Smart Road Side Unit(RSU) Company Evaluation Quadrant

Table 22. World Smart Road Side Unit(RSU) Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Smart Road Side Unit(RSU) Production Site of Key Manufacturer

Table 24. Smart Road Side Unit(RSU) Market: Company Product Type Footprint

Table 25. Smart Road Side Unit(RSU) Market: Company Product Application Footprint

Table 26. Smart Road Side Unit(RSU) Competitive Factors

Table 27. Smart Road Side Unit(RSU) New Entrant and Capacity Expansion Plans

Table 28. Smart Road Side Unit(RSU) Mergers & Acquisitions Activity

Table 29. United States VS China Smart Road Side Unit(RSU) Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Smart Road Side Unit(RSU) Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Smart Road Side Unit(RSU) Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Smart Road Side Unit(RSU) Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Smart Road Side Unit(RSU) Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Smart Road Side Unit(RSU) Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Smart Road Side Unit(RSU) Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Smart Road Side Unit(RSU) Production Market Share (2021-2026)

Table 37. China Based Smart Road Side Unit(RSU) Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Smart Road Side Unit(RSU) Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Smart Road Side Unit(RSU) Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Smart Road Side Unit(RSU) Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Smart Road Side Unit(RSU) Production Market

Share (2021-2026)

Table 42. Rest of World Based Smart Road Side Unit(RSU) Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Smart Road Side Unit(RSU) Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Smart Road Side Unit(RSU) Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Smart Road Side Unit(RSU) Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Smart Road Side Unit(RSU) Production Market Share (2021-2026)

Table 47. World Smart Road Side Unit(RSU) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Smart Road Side Unit(RSU) Production by Type (2021-2026) & (K Units)

Table 49. World Smart Road Side Unit(RSU) Production by Type (2027-2032) & (K Units)

Table 50. World Smart Road Side Unit(RSU) Production Value by Type (2021-2026) & (USD Million)

Table 51. World Smart Road Side Unit(RSU) Production Value by Type (2027-2032) & (USD Million)

Table 52. World Smart Road Side Unit(RSU) Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Smart Road Side Unit(RSU) Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Smart Road Side Unit(RSU) Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 55. World Smart Road Side Unit(RSU) Production by Technology (2021-2026) & (K Units)

Table 56. World Smart Road Side Unit(RSU) Production by Technology (2027-2032) & (K Units)

Table 57. World Smart Road Side Unit(RSU) Production Value by Technology (2021-2026) & (USD Million)

Table 58. World Smart Road Side Unit(RSU) Production Value by Technology (2027-2032) & (USD Million)

Table 59. World Smart Road Side Unit(RSU) Average Price by Technology (2021-2026) & (US\$/Unit)

Table 60. World Smart Road Side Unit(RSU) Average Price by Technology (2027-2032) & (US\$/Unit)

Table 61. World Smart Road Side Unit(RSU) Production Value by Power Supply, (USD Million), 2021 & 2025 & 2032

Table 62. World Smart Road Side Unit(RSU) Production by Power Supply (2021-2026) & (K Units)

Table 63. World Smart Road Side Unit(RSU) Production by Power Supply (2027-2032) & (K Units)

Table 64. World Smart Road Side Unit(RSU) Production Value by Power Supply (2021-2026) & (USD Million)

Table 65. World Smart Road Side Unit(RSU) Production Value by Power Supply (2027-2032) & (USD Million)

Table 66. World Smart Road Side Unit(RSU) Average Price by Power Supply (2021-2026) & (US\$/Unit)

Table 67. World Smart Road Side Unit(RSU) Average Price by Power Supply (2027-2032) & (US\$/Unit)

Table 68. World Smart Road Side Unit(RSU) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Smart Road Side Unit(RSU) Production by Application (2021-2026) & (K Units)

Table 70. World Smart Road Side Unit(RSU) Production by Application (2027-2032) & (K Units)

Table 71. World Smart Road Side Unit(RSU) Production Value by Application (2021-2026) & (USD Million)

Table 72. World Smart Road Side Unit(RSU) Production Value by Application (2027-2032) & (USD Million)

Table 73. World Smart Road Side Unit(RSU) Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Smart Road Side Unit(RSU) Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Yunex Traffic Basic Information, Manufacturing Base and Competitors

Table 76. Yunex Traffic Major Business

Table 77. Yunex Traffic Smart Road Side Unit(RSU) Product and Services

Table 78. Yunex Traffic Smart Road Side Unit(RSU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Yunex Traffic Recent Developments/Updates

Table 80. Yunex Traffic Competitive Strengths & Weaknesses

Table 81. Danlaw Inc. Basic Information, Manufacturing Base and Competitors

Table 82. Danlaw Inc. Major Business

Table 83. Danlaw Inc. Smart Road Side Unit(RSU) Product and Services

Table 84. Danlaw Inc. Smart Road Side Unit(RSU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Danlaw Inc. Recent Developments/Updates

Table 86. Danlaw Inc. Competitive Strengths & Weaknesses

Table 87. Genvict Technologies Basic Information, Manufacturing Base and Competitors

Table 88. Genvict Technologies Major Business

Table 89. Genvict Technologies Smart Road Side Unit(RSU) Product and Services

Table 90. Genvict Technologies Smart Road Side Unit(RSU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Genvict Technologies Recent Developments/Updates

Table 92. Genvict Technologies Competitive Strengths & Weaknesses

Table 93. TransInfo Technology Basic Information, Manufacturing Base and Competitors

Table 94. TransInfo Technology Major Business

Table 95. TransInfo Technology Smart Road Side Unit(RSU) Product and Services

Table 96. TransInfo Technology Smart Road Side Unit(RSU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. TransInfo Technology Recent Developments/Updates

Table 98. TransInfo Technology Competitive Strengths & Weaknesses

Table 99. Kapsch TrafficCom Basic Information, Manufacturing Base and Competitors

Table 100. Kapsch TrafficCom Major Business

Table 101. Kapsch TrafficCom Smart Road Side Unit(RSU) Product and Services

Table 102. Kapsch TrafficCom Smart Road Side Unit(RSU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Kapsch TrafficCom Recent Developments/Updates

Table 104. Kapsch TrafficCom Competitive Strengths & Weaknesses

Table 105. Keysight Basic Information, Manufacturing Base and Competitors

Table 106. Keysight Major Business

Table 107. Keysight Smart Road Side Unit(RSU) Product and Services

Table 108. Keysight Smart Road Side Unit(RSU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Keysight Recent Developments/Updates

Table 110. Keysight Competitive Strengths & Weaknesses

Table 111. Iteris Basic Information, Manufacturing Base and Competitors

Table 112. Iteris Major Business

Table 113. Iteris Smart Road Side Unit(RSU) Product and Services

Table 114. Iteris Smart Road Side Unit(RSU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Iteris Recent Developments/Updates

Table 116. Iteris Competitive Strengths & Weaknesses

Table 117. Huawei Basic Information, Manufacturing Base and Competitors

Table 118. Huawei Major Business

Table 119. Huawei Smart Road Side Unit(RSU) Product and Services

Table 120. Huawei Smart Road Side Unit(RSU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Huawei Recent Developments/Updates

Table 122. Huawei Competitive Strengths & Weaknesses

Table 123. Commsignia Basic Information, Manufacturing Base and Competitors

Table 124. Commsignia Major Business

Table 125. Commsignia Smart Road Side Unit(RSU) Product and Services

Table 126. Commsignia Smart Road Side Unit(RSU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Commsignia Recent Developments/Updates

Table 128. Commsignia Competitive Strengths & Weaknesses

Table 129. Gosuncn Technology Basic Information, Manufacturing Base and Competitors

Table 130. Gosuncn Technology Major Business

Table 131. Gosuncn Technology Smart Road Side Unit(RSU) Product and Services

Table 132. Gosuncn Technology Smart Road Side Unit(RSU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Gosuncn Technology Recent Developments/Updates

Table 134. Gosuncn Technology Competitive Strengths & Weaknesses

Table 135. Unex Technology Basic Information, Manufacturing Base and Competitors

Table 136. Unex Technology Major Business

Table 137. Unex Technology Smart Road Side Unit(RSU) Product and Services

Table 138. Unex Technology Smart Road Side Unit(RSU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Unex Technology Recent Developments/Updates

Table 140. Unex Technology Competitive Strengths & Weaknesses

Table 141. HARMAN Basic Information, Manufacturing Base and Competitors

Table 142. HARMAN Major Business

Table 143. HARMAN Smart Road Side Unit(RSU) Product and Services

Table 144. HARMAN Smart Road Side Unit(RSU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. HARMAN Recent Developments/Updates

Table 146. HARMAN Competitive Strengths & Weaknesses

Table 147. StarPoint Basic Information, Manufacturing Base and Competitors

Table 148. StarPoint Major Business

Table 149. StarPoint Smart Road Side Unit(RSU) Product and Services

Table 150. StarPoint Smart Road Side Unit(RSU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. StarPoint Recent Developments/Updates

Table 152. StarPoint Competitive Strengths & Weaknesses

Table 153. ZTE Basic Information, Manufacturing Base and Competitors

Table 154. ZTE Major Business

Table 155. ZTE Smart Road Side Unit(RSU) Product and Services

Table 156. ZTE Smart Road Side Unit(RSU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. ZTE Recent Developments/Updates

Table 158. ZTE Competitive Strengths & Weaknesses

Table 159. SWARCO Basic Information, Manufacturing Base and Competitors

Table 160. SWARCO Major Business

Table 161. SWARCO Smart Road Side Unit(RSU) Product and Services

Table 162. SWARCO Smart Road Side Unit(RSU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. SWARCO Recent Developments/Updates

Table 164. SWARCO Competitive Strengths & Weaknesses

Table 165. V2ROADS Basic Information, Manufacturing Base and Competitors

Table 166. V2ROADS Major Business

Table 167. V2ROADS Smart Road Side Unit(RSU) Product and Services

Table 168. V2ROADS Smart Road Side Unit(RSU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. V2ROADS Recent Developments/Updates

Table 170. V2ROADS Competitive Strengths & Weaknesses

Table 171. Global Key Players of Smart Road Side Unit(RSU) Upstream (Raw

Materials)

Table 172. Global Smart Road Side Unit(RSU) Typical Customers

Table 173. Smart Road Side Unit(RSU) Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Smart Road Side Unit(RSU) Picture

Figure 2. World Smart Road Side Unit(RSU) Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Smart Road Side Unit(RSU) Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Smart Road Side Unit(RSU) Production (2021-2032) & (K Units)

Figure 5. World Smart Road Side Unit(RSU) Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Smart Road Side Unit(RSU) Production Value Market Share by Region (2021-2032)

Figure 7. World Smart Road Side Unit(RSU) Production Market Share by Region (2021-2032)

Figure 8. North America Smart Road Side Unit(RSU) Production (2021-2032) & (K Units)

Figure 9. Europe Smart Road Side Unit(RSU) Production (2021-2032) & (K Units)

Figure 10. China Smart Road Side Unit(RSU) Production (2021-2032) & (K Units)

Figure 11. Japan Smart Road Side Unit(RSU) Production (2021-2032) & (K Units)

Figure 12. South Korea Smart Road Side Unit(RSU) Production (2021-2032) & (K Units)

Figure 13. Southeast Asia Smart Road Side Unit(RSU) Production (2021-2032) & (K Units)

Figure 14. China Taiwan Smart Road Side Unit(RSU) Production (2021-2032) & (K Units)

Figure 15. Smart Road Side Unit(RSU) Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Smart Road Side Unit(RSU) Consumption (2021-2032) & (K Units)

Figure 18. World Smart Road Side Unit(RSU) Consumption Market Share by Region (2021-2032)

Figure 19. United States Smart Road Side Unit(RSU) Consumption (2021-2032) & (K Units)

Figure 20. China Smart Road Side Unit(RSU) Consumption (2021-2032) & (K Units)

Figure 21. Europe Smart Road Side Unit(RSU) Consumption (2021-2032) & (K Units)

Figure 22. Japan Smart Road Side Unit(RSU) Consumption (2021-2032) & (K Units)

Figure 23. South Korea Smart Road Side Unit(RSU) Consumption (2021-2032) & (K Units)

Figure 24. ASEAN Smart Road Side Unit(RSU) Consumption (2021-2032) & (K Units)

Figure 25. India Smart Road Side Unit(RSU) Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of Smart Road Side Unit(RSU) by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Smart Road Side Unit(RSU) Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Smart Road Side Unit(RSU) Markets in 2025

Figure 29. United States VS China: Smart Road Side Unit(RSU) Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Smart Road Side Unit(RSU) Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Smart Road Side Unit(RSU) Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Smart Road Side Unit(RSU) Production Market Share 2025

Figure 33. China Based Manufacturers Smart Road Side Unit(RSU) Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Smart Road Side Unit(RSU) Production Market Share 2025

Figure 35. World Smart Road Side Unit(RSU) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Smart Road Side Unit(RSU) Production Value Market Share by Type in 2025

Figure 37. 4G Smart Roadside Unit

Figure 38. 5G Smart Roadside Unit

Figure 39. World Smart Road Side Unit(RSU) Production Market Share by Type (2021-2032)

Figure 40. World Smart Road Side Unit(RSU) Production Value Market Share by Type (2021-2032)

Figure 41. World Smart Road Side Unit(RSU) Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World Smart Road Side Unit(RSU) Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Figure 43. World Smart Road Side Unit(RSU) Production Value Market Share by Technology in 2025

Figure 44. Multi-antenna

Figure 45. Single-antenna

Figure 46. World Smart Road Side Unit(RSU) Production Market Share by Technology (2021-2032)

Figure 47. World Smart Road Side Unit(RSU) Production Value Market Share by

Technology (2021-2032)

Figure 48. World Smart Road Side Unit(RSU) Average Price by Technology (2021-2032) & (US\$/Unit)

Figure 49. World Smart Road Side Unit(RSU) Production Value by Power Supply, (USD Million), 2021 & 2025 & 2032

Figure 50. World Smart Road Side Unit(RSU) Production Value Market Share by Power Supply in 2025

Figure 51. Power Grid

Figure 52. Solar Energy

Figure 53. World Smart Road Side Unit(RSU) Production Market Share by Power Supply (2021-2032)

Figure 54. World Smart Road Side Unit(RSU) Production Value Market Share by Power Supply (2021-2032)

Figure 55. World Smart Road Side Unit(RSU) Average Price by Power Supply (2021-2032) & (US\$/Unit)

Figure 56. World Smart Road Side Unit(RSU) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Smart Road Side Unit(RSU) Production Value Market Share by Application in 2025

Figure 58. Highway

Figure 59. Road Traffic

Figure 60. World Smart Road Side Unit(RSU) Production Market Share by Application (2021-2032)

Figure 61. World Smart Road Side Unit(RSU) Production Value Market Share by Application (2021-2032)

Figure 62. World Smart Road Side Unit(RSU) Average Price by Application (2021-2032) & (US\$/Unit)

Figure 63. Smart Road Side Unit(RSU) Industry Chain

Figure 64. Smart Road Side Unit(RSU) Procurement Model

Figure 65. Smart Road Side Unit(RSU) Sales Model

Figure 66. Smart Road Side Unit(RSU) Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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