

Global Smart Road Side Unit(RSU) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Smart Road Side Unit(RSU) market size was valued at US\$ 190 million in 2025 and is forecast to a readjusted size of US\$ 766 million by 2032 with a CAGR of 22.3% during review period.

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 is a detailed and comprehensive analysis for global Smart Road Side Unit(RSU) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Smart Road Side Unit(RSU) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Smart Road Side Unit(RSU) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Smart Road Side Unit(RSU) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Smart Road Side Unit(RSU) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Smart Road Side Unit(RSU)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Smart Road Side Unit(RSU) market based

on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Smart Road Side Unit(RSU) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

4G Smart Roadside Unit

5G Smart Roadside Unit

Market segment by Technology

Multi-antenna

Single-antenna

Market segment by Power Supply

Power Grid

Solar Energy

Market segment by Application

Highway

Road Traffic

Major players covered

Yunex Traffic

Danlaw Inc.

Genvict Technologies

TransInfo Technology

Kapsch TrafficCom

Keysight

Iteris

Huawei

Commsignia

Gosuncn Technology

Unex Technology

HARMAN

StarPoint

ZTE

SWARCO

V2ROADS

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Smart Road Side Unit(RSU) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Smart Road Side Unit(RSU), with price, sales quantity, revenue, and global market share of Smart Road Side Unit(RSU) from 2021 to 2026.

Chapter 3, the Smart Road Side Unit(RSU) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Smart Road Side Unit(RSU) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Smart Road Side Unit(RSU) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Smart Road Side Unit(RSU).

Chapter 14 and 15, to describe Smart Road Side Unit(RSU) sales channel, distributors, customers, research findings and conclusion.

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