

Global Smart Road Side Unit(RSU) Market Growth 2026-2032

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Abstracts

The global Smart Road Side Unit(RSU) market size is predicted to grow from US\$ 181 million in 2025 to US\$ 780 million in 2032; it is expected to grow at a CAGR of 23.7% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Smart Road Side Unit(RSU) Industry Forecast" looks at past sales and reviews total world Smart Road Side Unit(RSU) sales in 2025, providing a comprehensive analysis by region and market sector of projected Smart Road Side Unit(RSU) sales for 2026 through 2032. With Smart Road Side Unit(RSU) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Smart Road Side Unit(RSU) industry.

This Insight Report provides a comprehensive analysis of the global Smart Road Side Unit(RSU) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Smart Road Side Unit(RSU) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Smart Road Side Unit(RSU) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Smart Road Side Unit(RSU) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Smart Road Side Unit(RSU).

This report presents a comprehensive overview, market shares, and growth opportunities of Smart Road Side Unit(RSU) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

4G Smart Roadside Unit

5G Smart Roadside Unit

Segmentation by Technology:

Multi-antenna

Single-antenna

Segmentation by Power Supply:

Power Grid

Solar Energy

Segmentation by Application:

Highway

Road Traffic

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Smart Road Side Unit(RSU) market?

What factors are driving Smart Road Side Unit(RSU) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Smart Road Side Unit(RSU) market opportunities vary by end market size?

How does Smart Road Side Unit(RSU) break out by Type, by Application?

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