

Global Dual-Mode Roadside Unit (RSU) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Dual-Mode Roadside Unit (RSU) market size is expected to reach \$ 1188 million by 2032, rising at a market growth of 17.6% CAGR during the forecast period (2026-2032).

Dual-Mode Roadside Unit (RSU) is an intelligent roadside communication device that integrates two communication protocols, typically enabling simultaneous support for different vehicle-to-everything standards to ensure broader compatibility and seamless connectivity in heterogeneous traffic networks. It offers advantages such as enhanced interoperability, flexible deployment, improved communication reliability, and the ability to support diverse intelligent transportation applications. The capacity utilization rate in 2025 was 80%, and the industry's average gross margin was about 25%. In 2025, production totaled 96,354 units, with an average price of USD 3,840 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 dual-protocol integration, system architecture design, hardware assembly, and communication optimization to ensure stable multi-standard 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.

Dual-Mode Roadside Unit (RSU) is increasingly shaped by the coexistence of multiple vehicle communication standards, where infrastructure must simultaneously support different protocols to ensure seamless connectivity. As intelligent transportation systems expand toward cooperative perception and real-time traffic orchestration, dual-mode capability becomes a practical requirement rather than a premium feature. The value of these systems lies in their ability to reduce deployment fragmentation and extend

lifecycle usability across evolving standards. Vendors that can optimize protocol integration efficiency, control hardware costs, and maintain stable performance in dense traffic scenarios are better positioned to capture long-term infrastructure contracts and sustain margins in a scale-driven market environment.

This report studies the global Dual-Mode Roadside Unit (RSU) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Dual-Mode Roadside 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 Dual-Mode Roadside Unit (RSU) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Dual-Mode Roadside Unit (RSU) total production and demand, 2021-2032, (K Units)

Global Dual-Mode Roadside Unit (RSU) total production value, 2021-2032, (USD Million)

Global Dual-Mode Roadside Unit (RSU) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Dual-Mode Roadside Unit (RSU) consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Dual-Mode Roadside Unit (RSU) domestic production, consumption, key domestic manufacturers and share

Global Dual-Mode Roadside Unit (RSU) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Dual-Mode Roadside Unit (RSU) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Dual-Mode Roadside Unit (RSU) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Dual-Mode Roadside 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 Dual-Mode Roadside 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 Dual-Mode Roadside Unit (RSU) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Dual-Mode Roadside Unit (RSU) Market, Segmentation by Type:

4G RSU

5G RSU

Global Dual-Mode Roadside Unit (RSU) Market, Segmentation by Technology:

Multi-antenna

Single-antenna

Global Dual-Mode Roadside Unit (RSU) Market, Segmentation by Power Supply:

Power Grid

Solar Energy

Global Dual-Mode Roadside 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 Dual-Mode Roadside Unit (RSU) market?
2. What is the demand of the global Dual-Mode Roadside Unit (RSU) market?
3. What is the year over year growth of the global Dual-Mode Roadside Unit (RSU) market?
4. What is the production and production value of the global Dual-Mode Roadside Unit (RSU) market?
5. Who are the key producers in the global Dual-Mode Roadside Unit (RSU) market?
6. What are the growth factors driving the market demand?

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