

Global Cooperative Vehicle Roadside Edge Computing Unit Market Growth 2026-2032

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Abstracts

The global Cooperative Vehicle Roadside Edge Computing Unit market size is predicted to grow from US\$ 293 million in 2025 to US\$ 1517 million in 2032; it is expected to grow at a CAGR of 27.0% from 2026 to 2032.

Cooperative Vehicle Roadside Edge Computing Unit is a distributed intelligent computing device specifically designed for vehicle-road collaboration scenarios, deployed along transportation infrastructure to enable coordinated data interaction and joint decision-making between vehicles, roadside systems, and traffic management platforms. It emphasizes real-time local processing and multi-source data fusion to support low-latency communication and cooperative control functions such as traffic flow optimization, collision avoidance, and dynamic traffic management. By integrating high-performance computing, communication, and edge intelligence capabilities, it enhances system-level coordination efficiency and operational safety in complex traffic environments. Its advantages include reduced network dependency, faster response speed, improved data processing efficiency, and strong adaptability to multi-scenario cooperative applications. In 2025, the capacity utilization rate was about 80%, and the average gross margin was approximately 30%. Production in 2025 was 115,385 units with an average price of 2600 USD per unit. The upstream primarily consists of high-performance SoC chips and 5G/C-V2X communication modules, with representative suppliers including Qualcomm, NVIDIA, Huawei, and ZTE. The midstream focuses on cooperative system integration, software-hardware coordination, algorithm deployment, and device optimization to ensure stable and efficient local processing capability. The downstream is mainly concentrated in highway and urban road traffic systems, with representative customers including China Communications Construction, China Railway Construction and Kapsch TrafficCom.

United States market for Cooperative Vehicle Roadside Edge Computing Unit is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Cooperative Vehicle Roadside Edge Computing Unit is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Cooperative Vehicle Roadside Edge Computing Unit is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Cooperative Vehicle Roadside Edge Computing Unit players cover Yunex Traffic (Germany), Danlaw Inc. (USA), Genvict Technologies (China), TransInfo Technology (China), Kapsch TrafficCom (Austria), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Cooperative Vehicle Roadside Edge Computing Unit 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 Cooperative Vehicle Roadside Edge Computing Unit portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Cooperative Vehicle Roadside Edge Computing Unit market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Cooperative Vehicle Roadside Edge Computing Unit 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 Cooperative Vehicle Roadside Edge Computing Unit.

This report presents a comprehensive overview, market shares, and growth opportunities of Cooperative Vehicle Roadside Edge Computing Unit market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

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