

# Global AI Roadside Unit Market Growth 2026-2032

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## Abstracts

The global AI Roadside Unit market size is predicted to grow from US\$ 75.28 million in 2025 to US\$ 398 million in 2032; it is expected to grow at a CAGR of 27.0% from 2026 to 2032.

AI Roadside Unit is an intelligent communication device integrated with AI capabilities, deployed along transportation infrastructure to enable seamless interaction between vehicles, road systems, and traffic management platforms. It supports real-time, low-latency data transmission, leveraging artificial intelligence for enhanced decision-making, traffic prediction, and dynamic response to road conditions. The system's strengths lie in its advanced data processing capabilities, high communication reliability, adaptability to varied environmental conditions, and support for multi-scenario traffic optimization and safety applications. In 2025, the capacity utilization rate was 80%, and the industry's average gross margin was approximately 25%. In 2025, production totaled 17,100 units, with an average price of USD 4500 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 AI system integration, protocol development, hardware assembly, and deployment optimization to ensure secure and stable system performance. Downstream applications are concentrated in highways and road traffic systems, with representative customers including China Communications Construction, China Railway Construction and Kapsch TrafficCom.

United States market for AI Roadside 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 AI Roadside 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 AI Roadside 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 AI Roadside Unit players cover TDK Corporation (Japan), Vacuumschmelze GmbH (Germany), Würth Elektronik Group (Germany), Bourns, Inc. (USA), Coilcraft (USA), 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 'AI Roadside Unit Industry Forecast' looks at past sales and reviews total world AI Roadside Unit sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Roadside Unit sales for 2026 through 2032. With AI Roadside Unit sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI Roadside Unit industry.

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of AI Roadside Unit 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.

TDK Corporation (Japan)

Vacuumschmelze GmbH (Germany)

W?rth Elektronik Group (Germany)

Bourns, Inc. (USA)

Coilcraft (USA)

Eaton Corporation (Ireland)

Vishay Intertechnology (USA)

Jasn (China)

iNRCORE (USA)

Yageo Corporation (China)

Toko Inc. (Japan)

## **Key Questions Addressed in this Report**

What is the 10-year outlook for the global AI Roadside Unit market?

What factors are driving AI Roadside Unit market growth, globally and by region?

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

How do AI Roadside Unit market opportunities vary by end market size?

How does AI Roadside Unit break out by Type, by Application?

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