

Global Roadside Edge Computing Box Market Research Report 2026(Status and Outlook)

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Abstracts

The roadside edge computing box is a device deployed on the roadside that integrates edge computing capabilities. It is also called a portable server. It can perform data processing and analysis near the data source, reducing the delay and bandwidth requirements of data transmission to the cloud. . This kind of equipment usually has powerful computing power, storage capacity and network connection capabilities. It has real-time data response, safety monitoring and early warning system, optimized traffic flow management and other functions. It is widely used in autonomous driving, logistics and transportation, etc.

The global Roadside Edge Computing Box market size was estimated at USD 278.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 8.00% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Roadside Edge Computing Box market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Roadside Edge Computing Box market. It offers detailed profiles of major players, including their

market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Roadside Edge Computing Box market.

Global Roadside Edge Computing Box Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Alibaba Cloud
NVIDIA
Lenovo
Huawei
Hikvision
Baidu
Wanji Technology
Transinfo Technology
ZTE
Zhejiang Dahua Technology

Market Segmentation (by Type)

Low Computing Power (Less Than 20Tops)

Medium Computing Power (20-100Tops)
High Computing Power (More Than 100Tops)

Market Segmentation (by Application)

Autonomous Driving
Smart Logistics
Smart Emergency
Surveying and Mapping

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Roadside Edge Computing Box Market
Overview of the regional outlook of the Roadside Edge Computing Box Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Roadside Edge Computing Box Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Roadside Edge Computing Box, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business

expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Roadside Edge Computing Box

1.2 Key Market Segments

1.2.1 Roadside Edge Computing Box Segment by Type

1.2.2 Roadside Edge Computing Box Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 ROADSIDE EDGE COMPUTING BOX MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Roadside Edge Computing Box Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Roadside Edge Computing Box Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 ROADSIDE EDGE COMPUTING BOX MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Roadside Edge Computing Box Product Life Cycle

3.3 Global Roadside Edge Computing Box Sales by Manufacturers (2020-2025)

3.4 Global Roadside Edge Computing Box Revenue Market Share by Manufacturers (2020-2025)

3.5 Roadside Edge Computing Box Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Roadside Edge Computing Box Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Roadside Edge Computing Box Market Competitive Situation and Trends

3.8.1 Roadside Edge Computing Box Market Concentration Rate

3.8.2 Global 5 and 10 Largest Roadside Edge Computing Box Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 ROADSIDE EDGE COMPUTING BOX INDUSTRY CHAIN ANALYSIS

4.1 Roadside Edge Computing Box Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF ROADSIDE EDGE COMPUTING BOX MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Roadside Edge Computing Box Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Roadside Edge Computing Box Market

5.7 ESG Ratings of Leading Companies

6 ROADSIDE EDGE COMPUTING BOX MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Roadside Edge Computing Box Sales Market Share by Type (2020-2025)

6.3 Global Roadside Edge Computing Box Market Size by Type (2020-2025)

6.4 Global Roadside Edge Computing Box Price by Type (2020-2025)

7 ROADSIDE EDGE COMPUTING BOX MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Roadside Edge Computing Box Market Sales by Application (2020-2025)

7.3 Global Roadside Edge Computing Box Market Size (M USD) by Application (2020-2025)

7.4 Global Roadside Edge Computing Box Sales Growth Rate by Application (2020-2025)

8 ROADSIDE EDGE COMPUTING BOX MARKET SALES BY REGION

8.1 Global Roadside Edge Computing Box Sales by Region

8.1.1 Global Roadside Edge Computing Box Sales by Region

8.1.2 Global Roadside Edge Computing Box Sales Market Share by Region

8.2 Global Roadside Edge Computing Box Market Size by Region

8.2.1 Global Roadside Edge Computing Box Market Size by Region

8.2.2 Global Roadside Edge Computing Box Market Size by Region

8.3 North America

8.3.1 North America Roadside Edge Computing Box Sales by Country

8.3.2 North America Roadside Edge Computing Box Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Roadside Edge Computing Box Sales by Country

8.4.2 Europe Roadside Edge Computing Box Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Roadside Edge Computing Box Sales by Region

8.5.2 Asia Pacific Roadside Edge Computing Box Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Roadside Edge Computing Box Sales by Country
 - 8.6.2 South America Roadside Edge Computing Box Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Roadside Edge Computing Box Sales by Region
 - 8.7.2 Middle East and Africa Roadside Edge Computing Box Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 ROADSIDE EDGE COMPUTING BOX MARKET PRODUCTION BY REGION

- 9.1 Global Production of Roadside Edge Computing Box by Region(2020-2025)
- 9.2 Global Roadside Edge Computing Box Revenue Market Share by Region (2020-2025)
- 9.3 Global Roadside Edge Computing Box Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Roadside Edge Computing Box Production
 - 9.4.1 North America Roadside Edge Computing Box Production Growth Rate (2020-2025)
 - 9.4.2 North America Roadside Edge Computing Box Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Roadside Edge Computing Box Production
 - 9.5.1 Europe Roadside Edge Computing Box Production Growth Rate (2020-2025)
 - 9.5.2 Europe Roadside Edge Computing Box Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Roadside Edge Computing Box Production (2020-2025)
 - 9.6.1 Japan Roadside Edge Computing Box Production Growth Rate (2020-2025)
 - 9.6.2 Japan Roadside Edge Computing Box Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Roadside Edge Computing Box Production (2020-2025)

- 9.7.1 China Roadside Edge Computing Box Production Growth Rate (2020-2025)
- 9.7.2 China Roadside Edge Computing Box Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Alibaba Cloud

- 10.1.1 Alibaba Cloud Basic Information
- 10.1.2 Alibaba Cloud Roadside Edge Computing Box Product Overview
- 10.1.3 Alibaba Cloud Roadside Edge Computing Box Product Market Performance
- 10.1.4 Alibaba Cloud Business Overview
- 10.1.5 Alibaba Cloud SWOT Analysis
- 10.1.6 Alibaba Cloud Recent Developments

10.2 NVIDIA

- 10.2.1 NVIDIA Basic Information
- 10.2.2 NVIDIA Roadside Edge Computing Box Product Overview
- 10.2.3 NVIDIA Roadside Edge Computing Box Product Market Performance
- 10.2.4 NVIDIA Business Overview
- 10.2.5 NVIDIA SWOT Analysis
- 10.2.6 NVIDIA Recent Developments

10.3 Lenovo

- 10.3.1 Lenovo Basic Information
- 10.3.2 Lenovo Roadside Edge Computing Box Product Overview
- 10.3.3 Lenovo Roadside Edge Computing Box Product Market Performance
- 10.3.4 Lenovo Business Overview
- 10.3.5 Lenovo SWOT Analysis
- 10.3.6 Lenovo Recent Developments

10.4 Huawei

- 10.4.1 Huawei Basic Information
- 10.4.2 Huawei Roadside Edge Computing Box Product Overview
- 10.4.3 Huawei Roadside Edge Computing Box Product Market Performance
- 10.4.4 Huawei Business Overview
- 10.4.5 Huawei Recent Developments

10.5 Hikvision

- 10.5.1 Hikvision Basic Information
- 10.5.2 Hikvision Roadside Edge Computing Box Product Overview
- 10.5.3 Hikvision Roadside Edge Computing Box Product Market Performance
- 10.5.4 Hikvision Business Overview
- 10.5.5 Hikvision Recent Developments

10.6 Baidu

10.6.1 Baidu Basic Information

10.6.2 Baidu Roadside Edge Computing Box Product Overview

10.6.3 Baidu Roadside Edge Computing Box Product Market Performance

10.6.4 Baidu Business Overview

10.6.5 Baidu Recent Developments

10.7 Wanji Technology

10.7.1 Wanji Technology Basic Information

10.7.2 Wanji Technology Roadside Edge Computing Box Product Overview

10.7.3 Wanji Technology Roadside Edge Computing Box Product Market Performance

10.7.4 Wanji Technology Business Overview

10.7.5 Wanji Technology Recent Developments

10.8 Transinfo Technology

10.8.1 Transinfo Technology Basic Information

10.8.2 Transinfo Technology Roadside Edge Computing Box Product Overview

10.8.3 Transinfo Technology Roadside Edge Computing Box Product Market

Performance

10.8.4 Transinfo Technology Business Overview

10.8.5 Transinfo Technology Recent Developments

10.9 ZTE

10.9.1 ZTE Basic Information

10.9.2 ZTE Roadside Edge Computing Box Product Overview

10.9.3 ZTE Roadside Edge Computing Box Product Market Performance

10.9.4 ZTE Business Overview

10.9.5 ZTE Recent Developments

10.10 Zhejiang Dahua Technology

10.10.1 Zhejiang Dahua Technology Basic Information

10.10.2 Zhejiang Dahua Technology Roadside Edge Computing Box Product

Overview

10.10.3 Zhejiang Dahua Technology Roadside Edge Computing Box Product Market

Performance

10.10.4 Zhejiang Dahua Technology Business Overview

10.10.5 Zhejiang Dahua Technology Recent Developments

11 ROADSIDE EDGE COMPUTING BOX MARKET FORECAST BY REGION

11.1 Global Roadside Edge Computing Box Market Size Forecast

11.2 Global Roadside Edge Computing Box Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

- 11.2.2 Europe Roadside Edge Computing Box Market Size Forecast by Country
- 11.2.3 Asia Pacific Roadside Edge Computing Box Market Size Forecast by Region
- 11.2.4 South America Roadside Edge Computing Box Market Size Forecast by Country
- 11.2.5 Middle East and Africa Forecasted Sales of Roadside Edge Computing Box by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Roadside Edge Computing Box Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Roadside Edge Computing Box by Type (2026-2035)

12.1.2 Global Roadside Edge Computing Box Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Roadside Edge Computing Box by Type (2026-2035)

12.2 Global Roadside Edge Computing Box Market Forecast by Application (2026-2035)

12.2.1 Global Roadside Edge Computing Box Sales (K Units) Forecast by Application

12.2.2 Global Roadside Edge Computing Box Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global Roadside Edge Computing Box Market Size by Type (M USD)
- Table 4. Global Roadside Edge Computing Box Market Size by Application
- Table 5. Roadside Edge Computing Box Market Size Comparison by Region (M USD)
- Table 6. Global Roadside Edge Computing Box Sales (K Units) by Manufacturers (2020-2025)
- Table 7. Global Roadside Edge Computing Box Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global Roadside Edge Computing Box Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global Roadside Edge Computing Box Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Roadside Edge Computing Box as of 2025)
- Table 11. Global Market Roadside Edge Computing Box Average Price (USD/Unit) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global Roadside Edge Computing Box Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. Roadside Edge Computing Box Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global Roadside Edge Computing Box Sales by Type (K Units)
- Table 27. Global Roadside Edge Computing Box Market Size by Type (M USD)

Table 28. Global Roadside Edge Computing Box Sales (K Units) by Type (2020-2025)

Table 29. Global Roadside Edge Computing Box Sales Market Share by Type (2020-2025)

Table 30. Global Roadside Edge Computing Box Market Size (M USD) by Type (2020-2025)

Table 31. Global Roadside Edge Computing Box Market Share by Type (2020-2025)

Table 32. Global Roadside Edge Computing Box Price (USD/Unit) by Type (2020-2025)

Table 33. Global Roadside Edge Computing Box Sales (K Units) by Application

Table 34. Global Roadside Edge Computing Box Market Size by Application

Table 35. Global Roadside Edge Computing Box Sales by Application (2020-2025) & (K Units)

Table 36. Global Roadside Edge Computing Box Sales Market Share by Application (2020-2025)

Table 37. Global Roadside Edge Computing Box Market Size by Application (2020-2025) & (M USD)

Table 38. Global Roadside Edge Computing Box Market Share by Application (2020-2025)

Table 39. Global Roadside Edge Computing Box Sales Growth Rate by Application (2020-2025)

Table 40. Global Roadside Edge Computing Box Sales by Region (2020-2025) & (K Units)

Table 41. Global Roadside Edge Computing Box Sales Market Share by Region (2020-2025)

Table 42. Global Roadside Edge Computing Box Market Size by Region (2020-2025) & (M USD)

Table 43. Global Roadside Edge Computing Box Market Size by Region (2020-2025)

Table 44. North America Roadside Edge Computing Box Sales by Country (2020-2025) & (K Units)

Table 45. North America Roadside Edge Computing Box Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Roadside Edge Computing Box Sales by Country (2020-2025) & (K Units)

Table 47. Europe Roadside Edge Computing Box Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Roadside Edge Computing Box Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Roadside Edge Computing Box Market Size by Region (2020-2025) & (M USD)

Table 50. South America Roadside Edge Computing Box Sales by Country (2020-2025)

& (K Units)

Table 51. South America Roadside Edge Computing Box Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Roadside Edge Computing Box Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Roadside Edge Computing Box Market Size by Region (2020-2025) & (M USD)

Table 54. Global Roadside Edge Computing Box Production (K Units) by Region(2020-2025)

Table 55. Global Roadside Edge Computing Box Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Roadside Edge Computing Box Revenue Market Share by Region (2020-2025)

Table 57. Global Roadside Edge Computing Box Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Roadside Edge Computing Box Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Roadside Edge Computing Box Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Roadside Edge Computing Box Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Roadside Edge Computing Box Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Alibaba Cloud Basic Information

Table 63. Alibaba Cloud Roadside Edge Computing Box Product Overview

Table 64. Alibaba Cloud Roadside Edge Computing Box Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Alibaba Cloud Business Overview

Table 66. Alibaba Cloud SWOT Analysis

Table 67. Alibaba Cloud Recent Developments

Table 68. NVIDIA Basic Information

Table 69. NVIDIA Roadside Edge Computing Box Product Overview

Table 70. NVIDIA Roadside Edge Computing Box Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. NVIDIA Business Overview

Table 72. NVIDIA SWOT Analysis

Table 73. NVIDIA Recent Developments

Table 74. Lenovo Basic Information

Table 75. Lenovo Roadside Edge Computing Box Product Overview

Table 76. Lenovo Roadside Edge Computing Box Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Lenovo Business Overview

Table 78. Lenovo SWOT Analysis

Table 79. Lenovo Recent Developments

Table 80. Huawei Basic Information

Table 81. Huawei Roadside Edge Computing Box Product Overview

Table 82. Huawei Roadside Edge Computing Box Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. Huawei Business Overview

Table 84. Huawei Recent Developments

Table 85. Hikvision Basic Information

Table 86. Hikvision Roadside Edge Computing Box Product Overview

Table 87. Hikvision Roadside Edge Computing Box Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. Hikvision Business Overview

Table 89. Hikvision Recent Developments

Table 90. Baidu Basic Information

Table 91. Baidu Roadside Edge Computing Box Product Overview

Table 92. Baidu Roadside Edge Computing Box Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. Baidu Business Overview

Table 94. Baidu Recent Developments

Table 95. Wanji Technology Basic Information

Table 96. Wanji Technology Roadside Edge Computing Box Product Overview

Table 97. Wanji Technology Roadside Edge Computing Box Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. Wanji Technology Business Overview

Table 99. Wanji Technology Recent Developments

Table 100. Transinfo Technology Basic Information

Table 101. Transinfo Technology Roadside Edge Computing Box Product Overview

Table 102. Transinfo Technology Roadside Edge Computing Box Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Transinfo Technology Business Overview

Table 104. Transinfo Technology Recent Developments

Table 105. ZTE Basic Information

Table 106. ZTE Roadside Edge Computing Box Product Overview

Table 107. ZTE Roadside Edge Computing Box Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. ZTE Business Overview

Table 109. ZTE Recent Developments

Table 110. Zhejiang Dahua Technology Basic Information

Table 111. Zhejiang Dahua Technology Roadside Edge Computing Box Product Overview

Table 112. Zhejiang Dahua Technology Roadside Edge Computing Box Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Zhejiang Dahua Technology Business Overview

Table 114. Zhejiang Dahua Technology Recent Developments

Table 115. Global Roadside Edge Computing Box Sales Forecast by Region (2026-2035) & (K Units)

Table 116. Global Roadside Edge Computing Box Market Size Forecast by Region (2026-2035) & (M USD)

Table 117. North America Roadside Edge Computing Box Sales Forecast by Country (2026-2035) & (K Units)

Table 118. North America Roadside Edge Computing Box Market Size Forecast by Country (2026-2035) & (M USD)

Table 119. Europe Roadside Edge Computing Box Sales Forecast by Country (2026-2035) & (K Units)

Table 120. Europe Roadside Edge Computing Box Market Size Forecast by Country (2026-2035) & (M USD)

Table 121. Asia Pacific Roadside Edge Computing Box Sales Forecast by Region (2026-2035) & (K Units)

Table 122. Asia Pacific Roadside Edge Computing Box Market Size Forecast by Region (2026-2035) & (M USD)

Table 123. South America Roadside Edge Computing Box Sales Forecast by Country (2026-2035) & (K Units)

Table 124. South America Roadside Edge Computing Box Market Size Forecast by Country (2026-2035) & (M USD)

Table 125. Middle East and Africa Roadside Edge Computing Box Sales Forecast by Country (2026-2035) & (Units)

Table 126. Middle East and Africa Roadside Edge Computing Box Market Size Forecast by Country (2026-2035) & (M USD)

Table 127. Global Roadside Edge Computing Box Sales Forecast by Type (2026-2035) & (K Units)

Table 128. Global Roadside Edge Computing Box Market Size Forecast by Type (2026-2035) & (M USD)

Table 129. Global Roadside Edge Computing Box Price Forecast by Type (2026-2035) & (USD/Unit)

Table 130. Global Roadside Edge Computing Box Sales (K Units) Forecast by Application (2026-2035)

Table 131. Global Roadside Edge Computing Box Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Roadside Edge Computing Box
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Roadside Edge Computing Box Market Size (M USD), 2025-2035
- Figure 5. Global Roadside Edge Computing Box Market Size (M USD) (2020-2035)
- Figure 6. Global Roadside Edge Computing Box Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Roadside Edge Computing Box Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Roadside Edge Computing Box Product Life Cycle
- Figure 13. Roadside Edge Computing Box Sales Share by Manufacturers in 2025
- Figure 14. Global Roadside Edge Computing Box Revenue Share by Manufacturers in 2025
- Figure 15. Roadside Edge Computing Box Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Roadside Edge Computing Box Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Roadside Edge Computing Box Revenue in 2025
- Figure 18. Industry Chain Map of Roadside Edge Computing Box
- Figure 19. Global Roadside Edge Computing Box Market PEST Analysis
- Figure 20. Global Roadside Edge Computing Box Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Roadside Edge Computing Box Market Share by Type
- Figure 27. Sales Market Share of Roadside Edge Computing Box by Type (2020-2025)
- Figure 28. Sales Market Share of Roadside Edge Computing Box by Type in 2025
- Figure 29. Market Share of Roadside Edge Computing Box by Type (2020-2025)
- Figure 30. Market Share of Roadside Edge Computing Box by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Roadside Edge Computing Box Market Share by Application

Figure 33. Global Roadside Edge Computing Box Sales Market Share by Application (2020-2025)

Figure 34. Global Roadside Edge Computing Box Sales Market Share by Application in 2025

Figure 35. Global Roadside Edge Computing Box Market Share by Application (2020-2025)

Figure 36. Global Roadside Edge Computing Box Market Share by Application in 2025

Figure 37. Global Roadside Edge Computing Box Sales Growth Rate by Application (2020-2025)

Figure 38. Global Roadside Edge Computing Box Sales Market Share by Region (2020-2025)

Figure 39. Global Roadside Edge Computing Box Market Size by Region (2020-2025)

Figure 40. North America Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Roadside Edge Computing Box Sales Market Share by Country in 2024

Figure 43. North America Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Roadside Edge Computing Box Market Size by Country in 2024

Figure 45. U.S. Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Roadside Edge Computing Box Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Roadside Edge Computing Box Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Roadside Edge Computing Box Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Roadside Edge Computing Box Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Roadside Edge Computing Box Sales Market Share by Country in 2024

Figure 53. Europe Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Roadside Edge Computing Box Market Size by Country in 2024

Figure 55. Germany Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Roadside Edge Computing Box Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Roadside Edge Computing Box Sales Market Share by Region in 2024

Figure 67. Asia Pacific Roadside Edge Computing Box Market Size by Region in 2024

Figure 68. China Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Roadside Edge Computing Box Sales and Growth Rate (K Units)

Figure 79. South America Roadside Edge Computing Box Sales Market Share by Country in 2024

Figure 80. South America Roadside Edge Computing Box Market Size and Growth Rate (M USD)

Figure 81. South America Roadside Edge Computing Box Market Size by Country in 2024

Figure 82. Brazil Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Roadside Edge Computing Box Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Roadside Edge Computing Box Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Roadside Edge Computing Box Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Roadside Edge Computing Box Market Size by Region in 2024

Figure 92. Saudi Arabia Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Roadside Edge Computing Box Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 94. UAE Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Roadside Edge Computing Box Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Roadside Edge Computing Box Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Roadside Edge Computing Box Production Market Share by Region (2020-2025)

Figure 103. North America Roadside Edge Computing Box Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Roadside Edge Computing Box Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Roadside Edge Computing Box Production (K Units) Growth Rate (2020-2025)

Figure 106. China Roadside Edge Computing Box Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Roadside Edge Computing Box Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Roadside Edge Computing Box Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Roadside Edge Computing Box Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Roadside Edge Computing Box Market Share Forecast by Type (2026-2035)

Figure 111. Global Roadside Edge Computing Box Sales Forecast by Application (2026-2035)

Figure 112. Global Roadside Edge Computing Box Market Share Forecast by Application (2026-2035)

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