

# Global Gated Recurrent Units Market Growth (Status and Outlook) 2026-2032

<https://marketpublishers.com/r/G7F2EA261F5CEN.html>

Date: May 2026

Pages: 127

Price: US\$ 3,660.00 (Single User License)

ID: G7F2EA261F5CEN

## Abstracts

The global Gated Recurrent Units market size is predicted to grow from US\$ 2627 million in 2025 to US\$ 8094 million in 2032; it is expected to grow at a CAGR of 17.5% from 2026 to 2032.

Gated Recurrent Units (GRUs) are a type of recurrent neural network (RNN) architecture designed to efficiently model sequential and time-dependent data while mitigating the vanishing-gradient problem common in standard RNNs. A GRU uses two gating mechanisms—the update gate and the reset gate—to control how much past information is retained or forgotten and how much new input is incorporated into the current hidden state. By adaptively balancing long-term memory with short-term input, GRUs can capture temporal dependencies without maintaining a separate cell state, making them computationally simpler and faster to train than LSTMs while often achieving comparable performance in tasks such as speech recognition, time-series forecasting, and natural language processing.

This report presents a comprehensive overview, market shares, and growth opportunities of Gated Recurrent Units market by product type, application, key players and key regions and countries.

Segmentation by Type:

Vanilla GRUs

Deep GRUs

Residual GRUs

## Sparse GRUs

### Segmentation by Parameter Scale:

Low-Parameter GRUs (32–128 Units)

Medium-Parameter GRUs (256–512 Units)

High-Parameter GRUs (768+ Units)

### Segmentation by Application:

Autonomous Driving

Industrial Automation

Telecommunications

Others

### This report also splits the market by region:

United States

China

Europe

Other regions

Japan

South Korea

Southeast Asia

## Rest of world

The report also presents the market competition landscape and a corresponding detailed analysis of the major players in the market. The key players covered in this report:

Google

Microsoft

Amazon

IBM

Alibaba

Tencent

Baidu

Meta

NVIDIA

OpenAI

Apple

Huawei

Samsung

Databricks

DataRobot

H2O.ai



## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered

### 2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
  - 2.1.1 Global Gated Recurrent Units Market Size 2026-2032
  - 2.1.2 Gated Recurrent Units Market Size CAGR by Region
- 2.2 Gated Recurrent Units Segment by Type
  - 2.2.1 Vanilla GRUs
  - 2.2.2 Deep GRUs
  - 2.2.3 Residual GRUs
  - 2.2.4 Sparse GRUs
  - 2.2.5 Gated Recurrent Units Market Size by Type
    - 2.2.5.1 Global Gated Recurrent Units Market Size Market Share by Type (2026-2032)
    - 2.2.5.2 Global Gated Recurrent Units Market Size Growth Rate by Type (2026-2032)
- 2.3 Gated Recurrent Units Segment by Parameter Scale
  - 2.3.1 Low-Parameter GRUs (32–128 Units)
  - 2.3.2 Medium-Parameter GRUs (256–512 Units)
  - 2.3.3 High-Parameter GRUs (768+ Units)
  - 2.3.4 Gated Recurrent Units Market Size by Parameter Scale
    - 2.3.4.1 Global Gated Recurrent Units Market Size Market Share by Parameter Scale (2026-2032)
    - 2.3.4.2 Global Gated Recurrent Units Market Size Growth Rate by Parameter Scale (2026-2032)
- 2.4 Gated Recurrent Units Segment by Application
  - 2.4.1 Autonomous Driving
  - 2.4.2 Industrial Automation
  - 2.4.3 Telecommunications
  - 2.4.4 Others

#### 2.4.5 Gated Recurrent Units Market Size by Application (2026-2032)

2.4.5.1 Global Gated Recurrent Units Market Size Market Share by Application (2026-2032)

2.4.5.2 Global Gated Recurrent Units Market Size Growth Rate by Application (2026-2032)

### **3 GATED RECURRENT UNITS KEY PLAYERS**

3.1 Date of Key Players Enter into Gated Recurrent Units

3.2 Key Players Gated Recurrent Units Product Offered

3.3 Key Players Gated Recurrent Units Funding/Investment Analysis

3.4 Funding/Investment

3.4.1 Funding/Investment by Regions

3.4.2 Funding/Investment by End-Industry

3.5 Key Players Gated Recurrent Units Valuation & Market Capitalization

3.6 Key Players Mergers & Acquisitions, Expansion Plans

3.7 Market Ranking

3.8 New Product/Technology Launches

3.9 Partnerships, Agreements, and Collaborations

3.10 Mergers and Acquisitions

### **4 GATED RECURRENT UNITS BY REGIONS**

4.1 Gated Recurrent Units Market Size by Regions (2026-2032)

4.2 United States Gated Recurrent Units Market Size Growth (2026-2032)

4.3 China Gated Recurrent Units Market Size Growth (2026-2032)

4.4 Europe Gated Recurrent Units Market Size Growth (2026-2032)

4.5 Rest of World Gated Recurrent Units Market Size Growth (2026-2032)

### **5 UNITED STATES**

5.1 United States Gated Recurrent Units Market Size by Type (2026-2032)

5.2 United States Gated Recurrent Units Market Size by Application (2026-2032)

### **6 EUROPE**

6.1 Europe Gated Recurrent Units Market Size by Type (2026-2032)

6.2 Europe Gated Recurrent Units Market Size by Application (2026-2032)

## **7 CHINA**

7.1 China Gated Recurrent Units Market Size by Type (2026-2032)

7.2 China Gated Recurrent Units Market Size by Application (2026-2032)

## **8 REST OF WORLD**

8.1 Rest of World Gated Recurrent Units Market Size by Type (2026-2032)

8.2 Rest of World Gated Recurrent Units Market Size by Application (2026-2032)

8.3 Japan

8.4 South Korea

8.5 Southeast Asia

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

## **10 KEY INVESTORS IN GATED RECURRENT UNITS**

10.1 Company A

10.1.1 Company A Company Details

10.1.2 Company Description

10.1.3 Companies Invested by Company A

10.1.4 Company A Key Development and Market Layout

10.2 Company B

10.2.1 Company B Company Details

10.2.2 Company Description

10.2.3 Companies Invested by Company B

10.2.4 Company B Key Development and Market Layout

10.3 Company C

10.3.1 Company C Company Details

10.3.2 Company Description

10.3.3 Companies Invested by Company C

10.3.4 Company C Key Development and Market Layout

10.4 Company D

10.5 .....

## 11 KEY PLAYERS ANALYSIS

### 11.1 Google

11.1.1 Google Company Details

11.1.2 Google Gated Recurrent Units Product Offered

11.1.3 Google Gated Recurrent Units Market Size (2025 VS 2031)

11.1.4 Google Main Business Overview

11.1.5 Google News

### 11.2 Microsoft

11.2.1 Microsoft Company Details

11.2.2 Microsoft Gated Recurrent Units Product Offered

11.2.3 Microsoft Gated Recurrent Units Market Size (2025 VS 2031)

11.2.4 Microsoft Main Business Overview

11.2.5 Microsoft News

### 11.3 Amazon

11.3.1 Amazon Company Details

11.3.2 Amazon Gated Recurrent Units Product Offered

11.3.3 Amazon Gated Recurrent Units Market Size (2025 VS 2031)

11.3.4 Amazon Main Business Overview

11.3.5 Amazon News

### 11.4 IBM

11.4.1 IBM Company Details

11.4.2 IBM Gated Recurrent Units Product Offered

11.4.3 IBM Gated Recurrent Units Market Size (2025 VS 2031)

11.4.4 IBM Main Business Overview

11.4.5 IBM News

### 11.5 Alibaba

11.5.1 Alibaba Company Details

11.5.2 Alibaba Gated Recurrent Units Product Offered

11.5.3 Alibaba Gated Recurrent Units Market Size (2025 VS 2031)

11.5.4 Alibaba Main Business Overview

11.5.5 Alibaba News

### 11.6 Tencent

11.6.1 Tencent Company Details

11.6.2 Tencent Gated Recurrent Units Product Offered

11.6.3 Tencent Gated Recurrent Units Market Size (2025 VS 2031)

11.6.4 Tencent Main Business Overview

11.6.5 Tencent News

### 11.7 Baidu

- 11.7.1 Baidu Company Details
- 11.7.2 Baidu Gated Recurrent Units Product Offered
- 11.7.3 Baidu Gated Recurrent Units Market Size (2025 VS 2031)
- 11.7.4 Baidu Main Business Overview
- 11.7.5 Baidu News
- 11.8 Meta
  - 11.8.1 Meta Company Details
  - 11.8.2 Meta Gated Recurrent Units Product Offered
  - 11.8.3 Meta Gated Recurrent Units Market Size (2025 VS 2031)
  - 11.8.4 Meta Main Business Overview
  - 11.8.5 Meta News
- 11.9 NVIDIA
  - 11.9.1 NVIDIA Company Details
  - 11.9.2 NVIDIA Gated Recurrent Units Product Offered
  - 11.9.3 NVIDIA Gated Recurrent Units Market Size (2025 VS 2031)
  - 11.9.4 NVIDIA Main Business Overview
  - 11.9.5 NVIDIA News
- 11.10 OpenAI
  - 11.10.1 OpenAI Company Details
  - 11.10.2 OpenAI Gated Recurrent Units Product Offered
  - 11.10.3 OpenAI Gated Recurrent Units Market Size (2025 VS 2031)
  - 11.10.4 OpenAI Main Business Overview
  - 11.10.5 OpenAI News
- 11.11 Apple
- 11.12 Huawei
- 11.13 Samsung
- 11.14 Databricks
- 11.15 DataRobot
- 11.16 H2O.ai

## **12 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

- Table 1. Gated Recurrent Units Market Size CAGR by Region (2026-2032) (\$ millions)
- Table 2. Major Players of Vanilla GRUs
- Table 3. Major Players of Deep GRUs
- Table 4. Major Players of Residual GRUs
- Table 5. Major Players of Sparse GRUs
- Table 6. Global Market Size by Type (2026-2032) (\$ millions)
- Table 7. Global Gated Recurrent Units Market Size Market Share by Type (2026-2032)
- Table 8. Major Players of Low-Parameter GRUs (32–128 Units)
- Table 9. Major Players of Medium-Parameter GRUs (256–512 Units)
- Table 10. Major Players of High-Parameter GRUs (768+ Units)
- Table 11. Global Market Size by Parameter Scale (2026-2032) (\$ millions)
- Table 12. Global Gated Recurrent Units Market Size Market Share by Parameter Scale (2026-2032)
- Table 13. Global Gated Recurrent Units Market Size by Application (2026-2032) (\$ millions)
- Table 14. Global Gated Recurrent Units Market Size Market Share by Application (2026-2032)
- Table 15. Date of Global Key Players Enter into Gated Recurrent Units Market
- Table 16. Global Key Players Gated Recurrent Units Product Offered
- Table 17. Key Players Gated Recurrent Units Funding/Investment (Million USD)
- Table 18. Funding/Investment by Regions
- Table 19. Funding/Investment by End-Industry
- Table 20. Key Players Gated Recurrent Units Valuation & Market Capitalization (Million USD)
- Table 21. Key Players Mergers & Acquisitions, Expansion Plans
- Table 22. Gated Recurrent Units New Product/Technology Launches
- Table 23. Gated Recurrent Units Industry Partnerships, Agreements, and Collaborations
- Table 24. Gated Recurrent Units Industry Mergers and Acquisitions
- Table 25. Global Gated Recurrent Units Market Size by Regions 2026-2032 (\$ millions)
- Table 26. Global Gated Recurrent Units Market Size Market Share by Regions 2026-2032
- Table 27. United States Gated Recurrent Units Market Size by Type (2026-2032) (\$ millions)
- Table 28. United States Gated Recurrent Units Market Size Market Share by Type (2026-2032)

- Table 29. United States Gated Recurrent Units Market Size by Application (2026-2032) (\$ millions)
- Table 30. United States Gated Recurrent Units Market Size Market Share by Application (2026-2032)
- Table 31. Europe Gated Recurrent Units Market Size by Type (2026-2032) (\$ millions)
- Table 32. Europe Gated Recurrent Units Market Size Market Share by Type (2026-2032)
- Table 33. Europe Gated Recurrent Units Market Size by Application (2026-2032) (\$ millions)
- Table 34. Europe Gated Recurrent Units Market Size Market Share by Application (2026-2032)
- Table 35. China Gated Recurrent Units Market Size by Type (2026-2032) (\$ millions)
- Table 36. China Gated Recurrent Units Market Size Market Share by Type (2026-2032)
- Table 37. China Gated Recurrent Units Market Size by Application (2026-2032) (\$ millions)
- Table 38. China Gated Recurrent Units Market Size Market Share by Application (2026-2032)
- Table 39. Rest of World Gated Recurrent Units Market Size by Type (2026-2032) (\$ millions)
- Table 40. Rest of World Gated Recurrent Units Market Size Market Share by Type (2026-2032)
- Table 41. Rest of World Gated Recurrent Units Market Size by Application (2026-2032) (\$ millions)
- Table 42. Rest of World Gated Recurrent Units Market Size Market Share by Application (2026-2032)
- Table 43. Key Market Drivers & Growth Opportunities of Gated Recurrent Units
- Table 44. Key Market Challenges & Risks of Gated Recurrent Units
- Table 45. Key Industry Trends of Gated Recurrent Units
- Table 46. Company A Company Details
- Table 47. Companies Invested by Company A
- Table 48. Company A Key Development and Market Layout
- Table 49. Company B Company Details
- Table 50. Companies Invested by Company B
- Table 51. Company B Key Development and Market Layout
- Table 52. Company C Company Details
- Table 53. Companies Invested by Company C
- Table 54. Company C Key Development and Market Layout
- Table 55. Google Basic Information, Head Office, Major Market Areas and Its Competitors

Table 56. Google Gated Recurrent Units Market Size (2025 VS 2031)

Table 57. Microsoft Basic Information, Head Office, Major Market Areas and Its Competitors

Table 58. Microsoft Gated Recurrent Units Market Size (2025 VS 2031)

Table 59. Amazon Basic Information, Head Office, Major Market Areas and Its Competitors

Table 60. Amazon Gated Recurrent Units Market Size (2025 VS 2031)

Table 61. IBM Basic Information, Head Office, Major Market Areas and Its Competitors

Table 62. IBM Gated Recurrent Units Market Size (2025 VS 2031)

Table 63. Alibaba Basic Information, Head Office, Major Market Areas and Its Competitors

Table 64. Alibaba Gated Recurrent Units Market Size (2025 VS 2031)

Table 65. Tencent Basic Information, Head Office, Major Market Areas and Its Competitors

Table 66. Tencent Gated Recurrent Units Market Size (2025 VS 2031)

Table 67. Baidu Basic Information, Head Office, Major Market Areas and Its Competitors

Table 68. Baidu Gated Recurrent Units Market Size (2025 VS 2031)

Table 69. Meta Basic Information, Head Office, Major Market Areas and Its Competitors

Table 70. Meta Gated Recurrent Units Market Size (2025 VS 2031)

Table 71. NVIDIA Basic Information, Head Office, Major Market Areas and Its Competitors

Table 72. NVIDIA Gated Recurrent Units Market Size (2025 VS 2031)

Table 73. OpenAI Basic Information, Head Office, Major Market Areas and Its Competitors

Table 74. OpenAI Gated Recurrent Units Market Size (2025 VS 2031)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Gated Recurrent Units
- Figure 2. Gated Recurrent Units Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Gated Recurrent Units Market Size Growth Rate 2026-2032 (\$ millions)
- Figure 7. Gated Recurrent Units Market Size by Region (2025 & 2032) (\$ millions)
- Figure 8. Global Gated Recurrent Units Market Size Market Share by Type (2026-2032)
- Figure 9. Global Vanilla GRUs Market Size Growth Rate
- Figure 10. Global Deep GRUs Market Size Growth Rate
- Figure 11. Global Gated Recurrent Units Market Size Market Share by Parameter Scale (2026-2032)
- Figure 12. Global Low-Parameter GRUs (32–128 Units) Market Size Growth Rate
- Figure 13. Global Medium-Parameter GRUs (256–512 Units) Market Size Growth Rate
- Figure 14. Gated Recurrent Units in Autonomous Driving
- Figure 15. Global Gated Recurrent Units Market: Autonomous Driving (2026-2032) (\$ millions)
- Figure 16. Gated Recurrent Units in Industrial Automation
- Figure 17. Global Gated Recurrent Units Market: Industrial Automation (2026-2032) (\$ millions)
- Figure 18. Gated Recurrent Units in Telecommunications
- Figure 19. Global Gated Recurrent Units Market: Telecommunications (2026-2032) (\$ millions)
- Figure 20. Gated Recurrent Units in Others
- Figure 21. Global Gated Recurrent Units Market: Others (2026-2032) (\$ millions)
- Figure 22. Global Gated Recurrent Units Market Size Market Share by Application (2026-2032)
- Figure 23. Global Gated Recurrent Units Market Size in Autonomous Driving Growth Rate
- Figure 24. Global Gated Recurrent Units Market Size in Industrial Automation Growth Rate
- Figure 25. Funding/Investment
- Figure 26. Global Gated Recurrent Units Market Size Market Share by Regions 2026-2032
- Figure 27. United States Gated Recurrent Units Market Size 2026-2032 (\$ millions)

Figure 28. China Gated Recurrent Units Market Size 2026-2032 (\$ millions)

Figure 29. Europe Gated Recurrent Units Market Size 2026-2032 (\$ millions)

Figure 30. Rest of World Gated Recurrent Units Market Size 2026-2032 (\$ millions)

Figure 31. United States Gated Recurrent Units Consumption Market Share by Type in 2030

Figure 32. United States Gated Recurrent Units Market Size Market Share by Application in 2030

Figure 33. Europe Gated Recurrent Units Consumption Market Share by Type in 2030

Figure 34. Europe Gated Recurrent Units Market Size Market Share by Application in 2030

Figure 35. China Gated Recurrent Units Consumption Market Share by Type in 2030

Figure 36. China Gated Recurrent Units Market Size Market Share by Application in 2030

Figure 37. Rest of World Gated Recurrent Units Consumption Market Share by Type in 2030

Figure 38. Rest of World Gated Recurrent Units Market Size Market Share by Application in 2030

## I would like to order

Product name: Global Gated Recurrent Units Market Growth (Status and Outlook) 2026-2032

Product link: <https://marketpublishers.com/r/G7F2EA261F5CEN.html>

Price: US\$ 3,660.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G7F2EA261F5CEN.html>