

Global Hardware AI Voice Modules Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Hardware AI Voice Modules market size is expected to reach \$ million by 2032, rising at a market growth of %CAGR during the forecast period (2026-2032). In 2024, global hardware AI voice module production reached approximately 62 Million units, with an average global market price of around US\$11 per unit. Monthly production capacity is 95K units per line. Gross Profit Margin: 14%. The industry chain for hardware AI voice modules begins with upstream suppliers of MEMS microphones, microcontrollers, DSP or NPU chips, and acoustic components such as microphone arrays and noise-reduction circuits. Midstream manufacturers integrate these components into complete voice modules through PCB assembly, firmware optimization, acoustic tuning, and quality testing. Downstream, the modules are adopted by smart home devices, appliances, robots, toys, automotive electronics, and other embedded products that require offline or low-power voice interaction. Hardware AI voice modules are becoming increasingly valuable as manufacturers push for on-device intelligence and reduced reliance on cloud processing. Their low cost, low power consumption, and offline capability make them ideal for mass-market products, especially in regions where privacy, latency, or network stability is a concern. As edge AI matures, these modules will likely evolve toward higher accuracy, multilingual support, and tighter integration with IoT platforms.

This report studies the global Hardware AI Voice Modules production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hardware AI Voice Modules 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 Hardware AI Voice Modules that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hardware AI Voice Modules total production and demand, 2021-2032, (Unit)

Global Hardware AI Voice Modules total production value, 2021-2032, (USD Million)

Global Hardware AI Voice Modules production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Unit), (based on production site)

Global Hardware AI Voice Modules consumption by region & country, CAGR, 2021-2032 & (Unit)

U.S. VS China: Hardware AI Voice Modules domestic production, consumption, key domestic manufacturers and share

Global Hardware AI Voice Modules production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Unit)

Global Hardware AI Voice Modules production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Unit)

Global Hardware AI Voice Modules production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Unit)

This report profiles key players in the global Hardware AI Voice Modules 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 Arduino, Seeed Studio, Hiwonder, Ai-Thinker, Espressif, Qualcomm, NXP, STMicroelectronics, Infineon Technologies, Cirrus Logic, 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 Hardware AI Voice Modules market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Unit) 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 Hardware AI Voice Modules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hardware AI Voice Modules Market, Segmentation by Type:

Single-Chip Voice Modules

MCU-Based Voice Modules

DSP-Based Voice Modules

NPU-Accelerated Voice Modules

Microphone-Array Modules

SoC Voice Processing Modules

Edge-AI Voice Modules

Global Hardware AI Voice Modules Market, Segmentation By Functional Capability:

Wake-Word Detection Modules

Offline Voice Command Modules

Far-Field Voice Recognition Modules

Voice Activity Detection Modules

Noise-Cancellation Voice Modules

Two-Way Voice Interaction Modules

Speech Playback And Synthesis Modules

Global Hardware AI Voice Modules Market, Segmentation by Application:

Home And Consumer Electronics

Industrial And Commercial Equipment

Automotive And Transportation

Healthcare And Assistive Devices

Robotics And Automation

Retail And Public Terminals

Smart Toys And Education

Companies Profiled:

Arduino

Seeed Studio

Hiwonder

Ai-Thinker

Espressif

Qualcomm

NXP

STMicroelectronics

Infineon Technologies

Cirrus Logic

XMOS

Knowles

Sensory

Rohm Semiconductor

MediaTek

Allwinner Technology

Rockchip

Nordic Semiconductor

Renesas Electronics

Silicon Labs

Key Questions Answered:

1. How big is the global Hardware AI Voice Modules market?
2. What is the demand of the global Hardware AI Voice Modules market?
3. What is the year over year growth of the global Hardware AI Voice Modules market?
4. What is the production and production value of the global Hardware AI Voice Modules market?
5. Who are the key producers in the global Hardware AI Voice Modules market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Hardware AI Voice Modules Introduction
- 1.2 World Hardware AI Voice Modules Supply & Forecast
 - 1.2.1 World Hardware AI Voice Modules Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Hardware AI Voice Modules Production (2021-2032)
 - 1.2.3 World Hardware AI Voice Modules Pricing Trends (2021-2032)
- 1.3 World Hardware AI Voice Modules Production by Region (Based on Production Site)
 - 1.3.1 World Hardware AI Voice Modules Production Value by Region (2021-2032)
 - 1.3.2 World Hardware AI Voice Modules Production by Region (2021-2032)
 - 1.3.3 World Hardware AI Voice Modules Average Price by Region (2021-2032)
 - 1.3.4 North America Hardware AI Voice Modules Production (2021-2032)
 - 1.3.5 Europe Hardware AI Voice Modules Production (2021-2032)
 - 1.3.6 China Hardware AI Voice Modules Production (2021-2032)
 - 1.3.7 Japan Hardware AI Voice Modules Production (2021-2032)
 - 1.3.8 South Korea Hardware AI Voice Modules Production (2021-2032)
 - 1.3.9 Southeast Asia Hardware AI Voice Modules Production (2021-2032)
 - 1.3.10 China Taiwan Hardware AI Voice Modules Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Hardware AI Voice Modules Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Hardware AI Voice Modules Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Hardware AI Voice Modules Demand (2021-2032)
- 2.2 World Hardware AI Voice Modules Consumption by Region
 - 2.2.1 World Hardware AI Voice Modules Consumption by Region (2021-2026)
 - 2.2.2 World Hardware AI Voice Modules Consumption Forecast by Region (2027-2032)
- 2.3 United States Hardware AI Voice Modules Consumption (2021-2032)
- 2.4 China Hardware AI Voice Modules Consumption (2021-2032)
- 2.5 Europe Hardware AI Voice Modules Consumption (2021-2032)
- 2.6 Japan Hardware AI Voice Modules Consumption (2021-2032)
- 2.7 South Korea Hardware AI Voice Modules Consumption (2021-2032)
- 2.8 ASEAN Hardware AI Voice Modules Consumption (2021-2032)

2.9 India Hardware AI Voice Modules Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Hardware AI Voice Modules Production Value by Manufacturer (2021-2026)

3.2 World Hardware AI Voice Modules Production by Manufacturer (2021-2026)

3.3 World Hardware AI Voice Modules Average Price by Manufacturer (2021-2026)

3.4 Hardware AI Voice Modules Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Hardware AI Voice Modules Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Hardware AI Voice Modules in 2025

3.5.3 Global Concentration Ratios (CR8) for Hardware AI Voice Modules in 2025

3.6 Hardware AI Voice Modules Market: Overall Company Footprint Analysis

3.6.1 Hardware AI Voice Modules Market: Region Footprint

3.6.2 Hardware AI Voice Modules Market: Company Product Type Footprint

3.6.3 Hardware AI Voice Modules Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Hardware AI Voice Modules Production Value Comparison

4.1.1 United States VS China: Hardware AI Voice Modules Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Hardware AI Voice Modules Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Hardware AI Voice Modules Production Comparison

4.2.1 United States VS China: Hardware AI Voice Modules Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Hardware AI Voice Modules Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Hardware AI Voice Modules Consumption Comparison

4.3.1 United States VS China: Hardware AI Voice Modules Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Hardware AI Voice Modules Consumption Market Share

Comparison (2021 & 2025 & 2032)

4.4 United States Based Hardware AI Voice Modules Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Hardware AI Voice Modules Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Hardware AI Voice Modules Production Value (2021-2026)

4.4.3 United States Based Manufacturers Hardware AI Voice Modules Production (2021-2026)

4.5 China Based Hardware AI Voice Modules Manufacturers and Market Share

4.5.1 China Based Hardware AI Voice Modules Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Hardware AI Voice Modules Production Value (2021-2026)

4.5.3 China Based Manufacturers Hardware AI Voice Modules Production (2021-2026)

4.6 Rest of World Based Hardware AI Voice Modules Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Hardware AI Voice Modules Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Hardware AI Voice Modules Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Hardware AI Voice Modules Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Hardware AI Voice Modules Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Single-Chip Voice Modules

5.2.2 MCU-Based Voice Modules

5.2.3 DSP-Based Voice Modules

5.2.4 NPU-Accelerated Voice Modules

5.2.5 Microphone-Array Modules

5.2.6 SoC Voice Processing Modules

5.2.7 Edge-AI Voice Modules

5.3 Market Segment by Type

5.3.1 World Hardware AI Voice Modules Production by Type (2021-2032)

5.3.2 World Hardware AI Voice Modules Production Value by Type (2021-2032)

5.3.3 World Hardware AI Voice Modules Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FUNCTIONAL CAPABILITY

6.1 World Hardware AI Voice Modules Market Size Overview By Functional Capability: 2021 VS 2025 VS 2032

6.2 Segment Introduction By Functional Capability

6.2.1 Wake-Word Detection Modules

6.2.2 Offline Voice Command Modules

6.2.3 Far-Field Voice Recognition Modules

6.2.4 Voice Activity Detection Modules

6.2.5 Noise-Cancellation Voice Modules

6.2.6 Two-Way Voice Interaction Modules

6.2.7 Speech Playback And Synthesis Modules

6.3 Market Segment By Functional Capability

6.3.1 World Hardware AI Voice Modules Production By Functional Capability (2021-2032)

6.3.2 World Hardware AI Voice Modules Production Value By Functional Capability (2021-2032)

6.3.3 World Hardware AI Voice Modules Average Price By Functional Capability (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Hardware AI Voice Modules Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Home And Consumer Electronics

7.2.2 Industrial And Commercial Equipment

7.2.3 Automotive And Transportation

7.2.4 Healthcare And Assistive Devices

7.2.5 Robotics And Automation

7.2.6 Retail And Public Terminals

7.2.7 Smart Toys And Education

7.3 Market Segment by Application

7.3.1 World Hardware AI Voice Modules Production by Application (2021-2032)

7.3.2 World Hardware AI Voice Modules Production Value by Application (2021-2032)

7.3.3 World Hardware AI Voice Modules Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Arduino

8.1.1 Arduino Details

8.1.2 Arduino Major Business

8.1.3 Arduino Hardware AI Voice Modules Product and Services

8.1.4 Arduino Hardware AI Voice Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Arduino Recent Developments/Updates

8.1.6 Arduino Competitive Strengths & Weaknesses

8.2 Seeed Studio

8.2.1 Seeed Studio Details

8.2.2 Seeed Studio Major Business

8.2.3 Seeed Studio Hardware AI Voice Modules Product and Services

8.2.4 Seeed Studio Hardware AI Voice Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 Seeed Studio Recent Developments/Updates

8.2.6 Seeed Studio Competitive Strengths & Weaknesses

8.3 Hiwonder

8.3.1 Hiwonder Details

8.3.2 Hiwonder Major Business

8.3.3 Hiwonder Hardware AI Voice Modules Product and Services

8.3.4 Hiwonder Hardware AI Voice Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 Hiwonder Recent Developments/Updates

8.3.6 Hiwonder Competitive Strengths & Weaknesses

8.4 Ai-Thinker

8.4.1 Ai-Thinker Details

8.4.2 Ai-Thinker Major Business

8.4.3 Ai-Thinker Hardware AI Voice Modules Product and Services

8.4.4 Ai-Thinker Hardware AI Voice Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 Ai-Thinker Recent Developments/Updates

8.4.6 Ai-Thinker Competitive Strengths & Weaknesses

8.5 Espressif

8.5.1 Espressif Details

8.5.2 Espressif Major Business

8.5.3 Espressif Hardware AI Voice Modules Product and Services

8.5.4 Espressif Hardware AI Voice Modules Production, Price, Value, Gross Margin

and Market Share (2021-2026)

8.5.5 Espressif Recent Developments/Updates

8.5.6 Espressif Competitive Strengths & Weaknesses

8.6 Qualcomm

8.6.1 Qualcomm Details

8.6.2 Qualcomm Major Business

8.6.3 Qualcomm Hardware AI Voice Modules Product and Services

8.6.4 Qualcomm Hardware AI Voice Modules Production, Price, Value, Gross Margin

and Market Share (2021-2026)

8.6.5 Qualcomm Recent Developments/Updates

8.6.6 Qualcomm Competitive Strengths & Weaknesses

8.7 NXP

8.7.1 NXP Details

8.7.2 NXP Major Business

8.7.3 NXP Hardware AI Voice Modules Product and Services

8.7.4 NXP Hardware AI Voice Modules Production, Price, Value, Gross Margin and

Market Share (2021-2026)

8.7.5 NXP Recent Developments/Updates

8.7.6 NXP Competitive Strengths & Weaknesses

8.8 STMicroelectronics

8.8.1 STMicroelectronics Details

8.8.2 STMicroelectronics Major Business

8.8.3 STMicroelectronics Hardware AI Voice Modules Product and Services

8.8.4 STMicroelectronics Hardware AI Voice Modules Production, Price, Value, Gross

Margin and Market Share (2021-2026)

8.8.5 STMicroelectronics Recent Developments/Updates

8.8.6 STMicroelectronics Competitive Strengths & Weaknesses

8.9 Infineon Technologies

8.9.1 Infineon Technologies Details

8.9.2 Infineon Technologies Major Business

8.9.3 Infineon Technologies Hardware AI Voice Modules Product and Services

8.9.4 Infineon Technologies Hardware AI Voice Modules Production, Price, Value,

Gross Margin and Market Share (2021-2026)

8.9.5 Infineon Technologies Recent Developments/Updates

8.9.6 Infineon Technologies Competitive Strengths & Weaknesses

8.10 Cirrus Logic

8.10.1 Cirrus Logic Details

8.10.2 Cirrus Logic Major Business

8.10.3 Cirrus Logic Hardware AI Voice Modules Product and Services

- 8.10.4 Cirrus Logic Hardware AI Voice Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.10.5 Cirrus Logic Recent Developments/Updates
- 8.10.6 Cirrus Logic Competitive Strengths & Weaknesses
- 8.11 XMOS
 - 8.11.1 XMOS Details
 - 8.11.2 XMOS Major Business
 - 8.11.3 XMOS Hardware AI Voice Modules Product and Services
 - 8.11.4 XMOS Hardware AI Voice Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.11.5 XMOS Recent Developments/Updates
 - 8.11.6 XMOS Competitive Strengths & Weaknesses
- 8.12 Knowles
 - 8.12.1 Knowles Details
 - 8.12.2 Knowles Major Business
 - 8.12.3 Knowles Hardware AI Voice Modules Product and Services
 - 8.12.4 Knowles Hardware AI Voice Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.12.5 Knowles Recent Developments/Updates
 - 8.12.6 Knowles Competitive Strengths & Weaknesses
- 8.13 Sensory
 - 8.13.1 Sensory Details
 - 8.13.2 Sensory Major Business
 - 8.13.3 Sensory Hardware AI Voice Modules Product and Services
 - 8.13.4 Sensory Hardware AI Voice Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.13.5 Sensory Recent Developments/Updates
 - 8.13.6 Sensory Competitive Strengths & Weaknesses
- 8.14 Rohm Semiconductor
 - 8.14.1 Rohm Semiconductor Details
 - 8.14.2 Rohm Semiconductor Major Business
 - 8.14.3 Rohm Semiconductor Hardware AI Voice Modules Product and Services
 - 8.14.4 Rohm Semiconductor Hardware AI Voice Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.14.5 Rohm Semiconductor Recent Developments/Updates
 - 8.14.6 Rohm Semiconductor Competitive Strengths & Weaknesses
- 8.15 MediaTek
 - 8.15.1 MediaTek Details
 - 8.15.2 MediaTek Major Business

- 8.15.3 MediaTek Hardware AI Voice Modules Product and Services
- 8.15.4 MediaTek Hardware AI Voice Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.15.5 MediaTek Recent Developments/Updates
- 8.15.6 MediaTek Competitive Strengths & Weaknesses
- 8.16 Allwinner Technology
 - 8.16.1 Allwinner Technology Details
 - 8.16.2 Allwinner Technology Major Business
 - 8.16.3 Allwinner Technology Hardware AI Voice Modules Product and Services
 - 8.16.4 Allwinner Technology Hardware AI Voice Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.16.5 Allwinner Technology Recent Developments/Updates
 - 8.16.6 Allwinner Technology Competitive Strengths & Weaknesses
- 8.17 Rockchip
 - 8.17.1 Rockchip Details
 - 8.17.2 Rockchip Major Business
 - 8.17.3 Rockchip Hardware AI Voice Modules Product and Services
 - 8.17.4 Rockchip Hardware AI Voice Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.17.5 Rockchip Recent Developments/Updates
 - 8.17.6 Rockchip Competitive Strengths & Weaknesses
- 8.18 Nordic Semiconductor
 - 8.18.1 Nordic Semiconductor Details
 - 8.18.2 Nordic Semiconductor Major Business
 - 8.18.3 Nordic Semiconductor Hardware AI Voice Modules Product and Services
 - 8.18.4 Nordic Semiconductor Hardware AI Voice Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.18.5 Nordic Semiconductor Recent Developments/Updates
 - 8.18.6 Nordic Semiconductor Competitive Strengths & Weaknesses
- 8.19 Renesas Electronics
 - 8.19.1 Renesas Electronics Details
 - 8.19.2 Renesas Electronics Major Business
 - 8.19.3 Renesas Electronics Hardware AI Voice Modules Product and Services
 - 8.19.4 Renesas Electronics Hardware AI Voice Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.19.5 Renesas Electronics Recent Developments/Updates
 - 8.19.6 Renesas Electronics Competitive Strengths & Weaknesses
- 8.20 Silicon Labs
 - 8.20.1 Silicon Labs Details

- 8.20.2 Silicon Labs Major Business
- 8.20.3 Silicon Labs Hardware AI Voice Modules Product and Services
- 8.20.4 Silicon Labs Hardware AI Voice Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.20.5 Silicon Labs Recent Developments/Updates
- 8.20.6 Silicon Labs Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

- 9.1 Hardware AI Voice Modules Industry Chain
- 9.2 Hardware AI Voice Modules Upstream Analysis
 - 9.2.1 Hardware AI Voice Modules Core Raw Materials
 - 9.2.2 Main Manufacturers of Hardware AI Voice Modules Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 Hardware AI Voice Modules Production Mode
- 9.6 Hardware AI Voice Modules Procurement Model
- 9.7 Hardware AI Voice Modules Industry Sales Model and Sales Channels
 - 9.7.1 Hardware AI Voice Modules Sales Model
 - 9.7.2 Hardware AI Voice Modules Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

- 11.1 Methodology
- 11.2 Research Process and Data Source
- 11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Hardware AI Voice Modules Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Hardware AI Voice Modules Production Value by Region (2021-2026) & (USD Million)

Table 3. World Hardware AI Voice Modules Production Value by Region (2027-2032) & (USD Million)

Table 4. World Hardware AI Voice Modules Production Value Market Share by Region (2021-2026)

Table 5. World Hardware AI Voice Modules Production Value Market Share by Region (2027-2032)

Table 6. World Hardware AI Voice Modules Production by Region (2021-2026) & (Unit)

Table 7. World Hardware AI Voice Modules Production by Region (2027-2032) & (Unit)

Table 8. World Hardware AI Voice Modules Production Market Share by Region (2021-2026)

Table 9. World Hardware AI Voice Modules Production Market Share by Region (2027-2032)

Table 10. World Hardware AI Voice Modules Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Hardware AI Voice Modules Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Hardware AI Voice Modules Major Market Trends

Table 13. World Hardware AI Voice Modules Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Unit)

Table 14. World Hardware AI Voice Modules Consumption by Region (2021-2026) & (Unit)

Table 15. World Hardware AI Voice Modules Consumption Forecast by Region (2027-2032) & (Unit)

Table 16. World Hardware AI Voice Modules Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Hardware AI Voice Modules Producers in 2025

Table 18. World Hardware AI Voice Modules Production by Manufacturer (2021-2026) & (Unit)

Table 19. Production Market Share of Key Hardware AI Voice Modules Producers in 2025

- Table 20. World Hardware AI Voice Modules Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 21. Global Hardware AI Voice Modules Company Evaluation Quadrant
- Table 22. World Hardware AI Voice Modules Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Hardware AI Voice Modules Production Site of Key Manufacturer
- Table 24. Hardware AI Voice Modules Market: Company Product Type Footprint
- Table 25. Hardware AI Voice Modules Market: Company Product Application Footprint
- Table 26. Hardware AI Voice Modules Competitive Factors
- Table 27. Hardware AI Voice Modules New Entrant and Capacity Expansion Plans
- Table 28. Hardware AI Voice Modules Mergers & Acquisitions Activity
- Table 29. United States VS China Hardware AI Voice Modules Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China Hardware AI Voice Modules Production Comparison, (2021 & 2025 & 2032) & (Unit)
- Table 31. United States VS China Hardware AI Voice Modules Consumption Comparison, (2021 & 2025 & 2032) & (Unit)
- Table 32. United States Based Hardware AI Voice Modules Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers Hardware AI Voice Modules Production Value, (2021-2026) & (USD Million)
- Table 34. United States Based Manufacturers Hardware AI Voice Modules Production Value Market Share (2021-2026)
- Table 35. United States Based Manufacturers Hardware AI Voice Modules Production (2021-2026) & (Unit)
- Table 36. United States Based Manufacturers Hardware AI Voice Modules Production Market Share (2021-2026)
- Table 37. China Based Hardware AI Voice Modules Manufacturers, Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers Hardware AI Voice Modules Production Value, (2021-2026) & (USD Million)
- Table 39. China Based Manufacturers Hardware AI Voice Modules Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers Hardware AI Voice Modules Production, (2021-2026) & (Unit)
- Table 41. China Based Manufacturers Hardware AI Voice Modules Production Market Share (2021-2026)
- Table 42. Rest of World Based Hardware AI Voice Modules Manufacturers,

Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Hardware AI Voice Modules Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Hardware AI Voice Modules Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Hardware AI Voice Modules Production, (2021-2026) & (Unit)

Table 46. Rest of World Based Manufacturers Hardware AI Voice Modules Production Market Share (2021-2026)

Table 47. World Hardware AI Voice Modules Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Hardware AI Voice Modules Production by Type (2021-2026) & (Unit)

Table 49. World Hardware AI Voice Modules Production by Type (2027-2032) & (Unit)

Table 50. World Hardware AI Voice Modules Production Value by Type (2021-2026) & (USD Million)

Table 51. World Hardware AI Voice Modules Production Value by Type (2027-2032) & (USD Million)

Table 52. World Hardware AI Voice Modules Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Hardware AI Voice Modules Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Hardware AI Voice Modules Production Value By Functional Capability, (USD Million), 2021 & 2025 & 2032

Table 55. World Hardware AI Voice Modules Production By Functional Capability (2021-2026) & (Unit)

Table 56. World Hardware AI Voice Modules Production By Functional Capability (2027-2032) & (Unit)

Table 57. World Hardware AI Voice Modules Production Value By Functional Capability (2021-2026) & (USD Million)

Table 58. World Hardware AI Voice Modules Production Value By Functional Capability (2027-2032) & (USD Million)

Table 59. World Hardware AI Voice Modules Average Price By Functional Capability (2021-2026) & (US\$/Unit)

Table 60. World Hardware AI Voice Modules Average Price By Functional Capability (2027-2032) & (US\$/Unit)

Table 61. World Hardware AI Voice Modules Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Hardware AI Voice Modules Production by Application (2021-2026) & (Unit)

Table 63. World Hardware AI Voice Modules Production by Application (2027-2032) & (Unit)

Table 64. World Hardware AI Voice Modules Production Value by Application (2021-2026) & (USD Million)

Table 65. World Hardware AI Voice Modules Production Value by Application (2027-2032) & (USD Million)

Table 66. World Hardware AI Voice Modules Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World Hardware AI Voice Modules Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. Arduino Basic Information, Manufacturing Base and Competitors

Table 69. Arduino Major Business

Table 70. Arduino Hardware AI Voice Modules Product and Services

Table 71. Arduino Hardware AI Voice Modules Production (Unit), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Arduino Recent Developments/Updates

Table 73. Arduino Competitive Strengths & Weaknesses

Table 74. Seeed Studio Basic Information, Manufacturing Base and Competitors

Table 75. Seeed Studio Major Business

Table 76. Seeed Studio Hardware AI Voice Modules Product and Services

Table 77. Seeed Studio Hardware AI Voice Modules Production (Unit), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Seeed Studio Recent Developments/Updates

Table 79. Seeed Studio Competitive Strengths & Weaknesses

Table 80. Hiwonder Basic Information, Manufacturing Base and Competitors

Table 81. Hiwonder Major Business

Table 82. Hiwonder Hardware AI Voice Modules Product and Services

Table 83. Hiwonder Hardware AI Voice Modules Production (Unit), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Hiwonder Recent Developments/Updates

Table 85. Hiwonder Competitive Strengths & Weaknesses

Table 86. Ai-Thinker Basic Information, Manufacturing Base and Competitors

Table 87. Ai-Thinker Major Business

Table 88. Ai-Thinker Hardware AI Voice Modules Product and Services

Table 89. Ai-Thinker Hardware AI Voice Modules Production (Unit), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Ai-Thinker Recent Developments/Updates

Table 91. Ai-Thinker Competitive Strengths & Weaknesses

Table 92. Espressif Basic Information, Manufacturing Base and Competitors

Table 93. Espressif Major Business

Table 94. Espressif Hardware AI Voice Modules Product and Services

Table 95. Espressif Hardware AI Voice Modules Production (Unit), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Espressif Recent Developments/Updates

Table 97. Espressif Competitive Strengths & Weaknesses

Table 98. Qualcomm Basic Information, Manufacturing Base and Competitors

Table 99. Qualcomm Major Business

Table 100. Qualcomm Hardware AI Voice Modules Product and Services

Table 101. Qualcomm Hardware AI Voice Modules Production (Unit), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Qualcomm Recent Developments/Updates

Table 103. Qualcomm Competitive Strengths & Weaknesses

Table 104. NXP Basic Information, Manufacturing Base and Competitors

Table 105. NXP Major Business

Table 106. NXP Hardware AI Voice Modules Product and Services

Table 107. NXP Hardware AI Voice Modules Production (Unit), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. NXP Recent Developments/Updates

Table 109. NXP Competitive Strengths & Weaknesses

Table 110. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 111. STMicroelectronics Major Business

Table 112. STMicroelectronics Hardware AI Voice Modules Product and Services

Table 113. STMicroelectronics Hardware AI Voice Modules Production (Unit), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. STMicroelectronics Recent Developments/Updates

Table 115. STMicroelectronics Competitive Strengths & Weaknesses

Table 116. Infineon Technologies Basic Information, Manufacturing Base and Competitors

Table 117. Infineon Technologies Major Business

Table 118. Infineon Technologies Hardware AI Voice Modules Product and Services

Table 119. Infineon Technologies Hardware AI Voice Modules Production (Unit), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Infineon Technologies Recent Developments/Updates

Table 121. Infineon Technologies Competitive Strengths & Weaknesses

Table 122. Cirrus Logic Basic Information, Manufacturing Base and Competitors

Table 123. Cirrus Logic Major Business

- Table 124. Cirrus Logic Hardware AI Voice Modules Product and Services
- Table 125. Cirrus Logic Hardware AI Voice Modules Production (Unit), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 126. Cirrus Logic Recent Developments/Updates
- Table 127. Cirrus Logic Competitive Strengths & Weaknesses
- Table 128. XMOS Basic Information, Manufacturing Base and Competitors
- Table 129. XMOS Major Business
- Table 130. XMOS Hardware AI Voice Modules Product and Services
- Table 131. XMOS Hardware AI Voice Modules Production (Unit), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 132. XMOS Recent Developments/Updates
- Table 133. XMOS Competitive Strengths & Weaknesses
- Table 134. Knowles Basic Information, Manufacturing Base and Competitors
- Table 135. Knowles Major Business
- Table 136. Knowles Hardware AI Voice Modules Product and Services
- Table 137. Knowles Hardware AI Voice Modules Production (Unit), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 138. Knowles Recent Developments/Updates
- Table 139. Knowles Competitive Strengths & Weaknesses
- Table 140. Sensory Basic Information, Manufacturing Base and Competitors
- Table 141. Sensory Major Business
- Table 142. Sensory Hardware AI Voice Modules Product and Services
- Table 143. Sensory Hardware AI Voice Modules Production (Unit), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 144. Sensory Recent Developments/Updates
- Table 145. Sensory Competitive Strengths & Weaknesses
- Table 146. Rohm Semiconductor Basic Information, Manufacturing Base and Competitors
- Table 147. Rohm Semiconductor Major Business
- Table 148. Rohm Semiconductor Hardware AI Voice Modules Product and Services
- Table 149. Rohm Semiconductor Hardware AI Voice Modules Production (Unit), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 150. Rohm Semiconductor Recent Developments/Updates
- Table 151. Rohm Semiconductor Competitive Strengths & Weaknesses
- Table 152. MediaTek Basic Information, Manufacturing Base and Competitors
- Table 153. MediaTek Major Business
- Table 154. MediaTek Hardware AI Voice Modules Product and Services
- Table 155. MediaTek Hardware AI Voice Modules Production (Unit), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 156. MediaTek Recent Developments/Updates

Table 157. MediaTek Competitive Strengths & Weaknesses

Table 158. Allwinner Technology Basic Information, Manufacturing Base and Competitors

Table 159. Allwinner Technology Major Business

Table 160. Allwinner Technology Hardware AI Voice Modules Product and Services

Table 161. Allwinner Technology Hardware AI Voice Modules Production (Unit), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 162. Allwinner Technology Recent Developments/Updates

Table 163. Allwinner Technology Competitive Strengths & Weaknesses

Table 164. Rockchip Basic Information, Manufacturing Base and Competitors

Table 165. Rockchip Major Business

Table 166. Rockchip Hardware AI Voice Modules Product and Services

Table 167. Rockchip Hardware AI Voice Modules Production (Unit), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 168. Rockchip Recent Developments/Updates

Table 169. Rockchip Competitive Strengths & Weaknesses

Table 170. Nordic Semiconductor Basic Information, Manufacturing Base and Competitors

Table 171. Nordic Semiconductor Major Business

Table 172. Nordic Semiconductor Hardware AI Voice Modules Product and Services

Table 173. Nordic Semiconductor Hardware AI Voice Modules Production (Unit), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 174. Nordic Semiconductor Recent Developments/Updates

Table 175. Nordic Semiconductor Competitive Strengths & Weaknesses

Table 176. Renesas Electronics Basic Information, Manufacturing Base and Competitors

Table 177. Renesas Electronics Major Business

Table 178. Renesas Electronics Hardware AI Voice Modules Product and Services

Table 179. Renesas Electronics Hardware AI Voice Modules Production (Unit), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 180. Renesas Electronics Recent Developments/Updates

Table 181. Renesas Electronics Competitive Strengths & Weaknesses

Table 182. Silicon Labs Basic Information, Manufacturing Base and Competitors

Table 183. Silicon Labs Major Business

Table 184. Silicon Labs Hardware AI Voice Modules Product and Services

Table 185. Silicon Labs Hardware AI Voice Modules Production (Unit), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 186. Silicon Labs Recent Developments/Updates

Table 187. Silicon Labs Competitive Strengths & Weaknesses

Table 188. Global Key Players of Hardware AI Voice Modules Upstream (Raw Materials)

Table 189. Global Hardware AI Voice Modules Typical Customers

Table 190. Hardware AI Voice Modules Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Hardware AI Voice Modules Picture

Figure 2. World Hardware AI Voice Modules Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Hardware AI Voice Modules Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Hardware AI Voice Modules Production (2021-2032) & (Unit)

Figure 5. World Hardware AI Voice Modules Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Hardware AI Voice Modules Production Value Market Share by Region (2021-2032)

Figure 7. World Hardware AI Voice Modules Production Market Share by Region (2021-2032)

Figure 8. North America Hardware AI Voice Modules Production (2021-2032) & (Unit)

Figure 9. Europe Hardware AI Voice Modules Production (2021-2032) & (Unit)

Figure 10. China Hardware AI Voice Modules Production (2021-2032) & (Unit)

Figure 11. Japan Hardware AI Voice Modules Production (2021-2032) & (Unit)

Figure 12. South Korea Hardware AI Voice Modules Production (2021-2032) & (Unit)

Figure 13. Southeast Asia Hardware AI Voice Modules Production (2021-2032) & (Unit)

Figure 14. China Taiwan Hardware AI Voice Modules Production (2021-2032) & (Unit)

Figure 15. Hardware AI Voice Modules Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Hardware AI Voice Modules Consumption (2021-2032) & (Unit)

Figure 18. World Hardware AI Voice Modules Consumption Market Share by Region (2021-2032)

Figure 19. United States Hardware AI Voice Modules Consumption (2021-2032) & (Unit)

Figure 20. China Hardware AI Voice Modules Consumption (2021-2032) & (Unit)

Figure 21. Europe Hardware AI Voice Modules Consumption (2021-2032) & (Unit)

Figure 22. Japan Hardware AI Voice Modules Consumption (2021-2032) & (Unit)

Figure 23. South Korea Hardware AI Voice Modules Consumption (2021-2032) & (Unit)

Figure 24. ASEAN Hardware AI Voice Modules Consumption (2021-2032) & (Unit)

Figure 25. India Hardware AI Voice Modules Consumption (2021-2032) & (Unit)

Figure 26. Producer Shipments of Hardware AI Voice Modules by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Hardware AI Voice Modules Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Hardware AI Voice Modules Markets in 2025

Figure 29. United States VS China: Hardware AI Voice Modules Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Hardware AI Voice Modules Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Hardware AI Voice Modules Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Hardware AI Voice Modules Production Market Share 2025

Figure 33. China Based Manufacturers Hardware AI Voice Modules Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Hardware AI Voice Modules Production Market Share 2025

Figure 35. World Hardware AI Voice Modules Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Hardware AI Voice Modules Production Value Market Share by Type in 2025

Figure 37. Single-Chip Voice Modules

Figure 38. MCU-Based Voice Modules

Figure 39. DSP-Based Voice Modules

Figure 40. NPU-Accelerated Voice Modules

Figure 41. Microphone-Array Modules

Figure 42. SoC Voice Processing Modules

Figure 43. Edge-AI Voice Modules

Figure 44. Edge-AI Voice Modules

Figure 45. World Hardware AI Voice Modules Production Market Share by Type (2021-2032)

Figure 46. World Hardware AI Voice Modules Production Value Market Share by Type (2021-2032)

Figure 47. World Hardware AI Voice Modules Average Price by Type (2021-2032) & (US\$/Unit)

Figure 48. World Hardware AI Voice Modules Production Value By Functional Capability, (USD Million), 2021 & 2025 & 2032

Figure 49. World Hardware AI Voice Modules Production Value Market Share By Functional Capability in 2025

Figure 50. Wake-Word Detection Modules

Figure 51. Offline Voice Command Modules

Figure 52. Far-Field Voice Recognition Modules

- Figure 53. Voice Activity Detection Modules
- Figure 54. Noise-Cancellation Voice Modules
- Figure 55. Two-Way Voice Interaction Modules
- Figure 56. Speech Playback And Synthesis Modules
- Figure 57. Speech Playback And Synthesis Modules
- Figure 58. World Hardware AI Voice Modules Production Market Share By Functional Capability (2021-2032)
- Figure 59. World Hardware AI Voice Modules Production Value Market Share By Functional Capability (2021-2032)
- Figure 60. World Hardware AI Voice Modules Average Price By Functional Capability (2021-2032) & (US\$/Unit)
- Figure 61. World Hardware AI Voice Modules Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 62. World Hardware AI Voice Modules Production Value Market Share by Application in 2025
- Figure 63. Home And Consumer Electronics
- Figure 64. Industrial And Commercial Equipment
- Figure 65. Automotive And Transportation
- Figure 66. Healthcare And Assistive Devices
- Figure 67. Robotics And Automation
- Figure 68. Retail And Public Terminals
- Figure 69. Smart Toys And Education
- Figure 70. World Hardware AI Voice Modules Production Market Share by Application (2021-2032)
- Figure 71. World Hardware AI Voice Modules Production Value Market Share by Application (2021-2032)
- Figure 72. World Hardware AI Voice Modules Average Price by Application (2021-2032) & (US\$/Unit)
- Figure 73. Hardware AI Voice Modules Industry Chain
- Figure 74. Hardware AI Voice Modules Procurement Model
- Figure 75. Hardware AI Voice Modules Sales Model
- Figure 76. Hardware AI Voice Modules Sales Channels, Direct Sales, and Distribution
- Figure 77. Methodology
- Figure 78. Research Process and Data Source

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