

Global On-Device Multimodal Large Model Service Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global On-Device Multimodal Large Model Service market size is expected to reach \$ 22881 million by 2032, rising at a market growth of 24.2% CAGR during the forecast period (2026-2032).

On-Device Multimodal Large Model Service refers to professional technical services that adapt, compress, deploy and operate multimodal foundation models directly on smartphones, AI PCs, automobiles, robots, wearable devices, XR equipment, industrial terminals and other edge devices. These services enable local processing of two or more data modalities, such as text, images, speech, audio, video, sensor streams, three-dimensional information and device status, within a unified model or coordinated inference workflow. The service scope covers model selection, fine-tuning, distillation, pruning, quantization, format conversion, inference-engine integration, CPU/GPU/NPU optimization, operating-system adaptation, multimodal application development, on-device agent integration, performance testing, privacy protection, over-the-air updates and continuous model operations. This research focuses on projects in which core model inference is primarily completed on the device, with edge-cloud collaboration used for complex reasoning, long-context processing or model updating. Major applications include mobile devices, AI PCs, intelligent vehicles, robotics, industrial manufacturing, healthcare, retail, security, transportation, XR, wearables, smart homes and energy operations.

Key Findings

Mobile devices and AI PCs lead large-scale commercial deployment

Automotive and robotics generate higher-value edge AI requirements

Low latency and privacy define core on-device service value

Quantization and hardware adaptation determine practical deployment efficiency

Edge-cloud collaboration remains important for complex multimodal reasoning

Market Trends

The On-Device Multimodal Large Model Service market is shifting from deploying separate speech, vision and language models toward unified multimodal intelligence capable of understanding and generating information across several data types. Earlier edge AI projects mainly focused on image classification, speech recognition or keyword detection, while current deployments increasingly combine camera input, natural language, audio, sensor signals and device context in one interactive workflow. Model compression is moving beyond basic quantization toward coordinated distillation, pruning, operator replacement, memory optimization and hardware-aware compilation. Customers are also moving from demonstration projects to measurable requirements for response time, sustained performance, power consumption, offline completion rates, privacy and update reliability. The long-term direction is toward on-device agents that can understand the local environment, access authorized device functions, perform multi-step tasks and cooperate dynamically with edge servers or cloud models when local resources are insufficient.

Market Dynamics

Drivers

Demand is driven by the rapid expansion of AI-capable smartphones, personal computers, automotive processors, robotics platforms and industrial edge devices. Users increasingly expect assistants to understand images, speech, documents, video and device context without continuously uploading raw data to remote servers. Local inference can reduce network dependence, improve response time, lower cloud-inference costs and strengthen control over sensitive information. Improvements in neural processing units, memory bandwidth, low-bit quantization and mobile inference frameworks are increasing the size and complexity of models that can run on edge

hardware. Growth in intelligent cockpits, embodied intelligence, industrial inspection, healthcare devices and wearable computing is further expanding demand for multimodal models that can perceive, reason and act in real time.

Restraints

Market development is constrained by limited device memory, battery capacity, heat dissipation, storage and sustained computing performance. A model that performs well on a workstation or cloud GPU may suffer significant accuracy loss, slow response or excessive power consumption after compression and deployment on a mobile or embedded processor. Hardware fragmentation also increases project complexity because different chips, accelerators, operating systems and inference engines support different operators and numerical formats. Multimodal models require additional visual, audio or sensor encoders, increasing memory and storage requirements. Customers may also find it difficult to compare service quality because parameter count, peak TOPS and short benchmark results do not fully represent sustained real-world performance. Device testing, compatibility validation and long-term maintenance can materially increase delivery costs.

Opportunities

Future opportunities are concentrated in local AI assistants, intelligent vehicles, embodied robots, industrial copilots, medical equipment and privacy-sensitive enterprise applications. AI PCs and smartphones provide large device volumes for document understanding, meeting assistance, image analysis, translation and personal knowledge services. Automotive and robotics projects create higher-value opportunities because models must combine perception, language and device actions under strict latency and reliability requirements. Industrial, energy and transportation customers need offline fault diagnosis, visual inspection and field-work guidance in environments with unstable connectivity. Local adapters, device-specific personalization and continuous on-device learning may enable differentiated user experiences without centralizing raw personal data. Managed model operations, cross-device deployment and secure over-the-air updating can create recurring service revenue after the initial development project.

Challenges

The industry faces long-term challenges in maintaining model quality while reducing

memory, computation and energy consumption. Compression may affect small-object recognition, speech understanding, multilingual performance or complex reasoning differently, making a single accuracy metric insufficient. Providers need reproducible methods to evaluate latency, token-generation speed, multimodal-task completion, power consumption, thermal throttling and offline reliability across many device configurations. Security risks also increase when models can call applications, control vehicles, operate robots or access local files. Clear permission boundaries, model signing, rollback mechanisms and audit records are therefore necessary. Rapid changes in chips, operating systems and model architectures can shorten the useful life of optimization work, while device manufacturers and cloud platforms may increasingly provide their own integrated toolchains.

Value Chain Analysis

The upstream portion of the On-Device Multimodal Large Model Service value chain includes foundation models, training datasets, model-development frameworks, processors, neural processing units, memory, operating systems, inference engines, compilers, security technologies and device-management platforms. Model developers provide language, vision, audio and multimodal architectures, while semiconductor and operating-system vendors determine available operators, numerical precision, memory allocation and acceleration capabilities. Major upstream costs include model licensing, engineering talent, computing resources, device samples, testing laboratories, development kits and access to proprietary hardware toolchains. Hardware-aware model design and standardized deployment formats can reduce adaptation costs, whereas fragmented chip and software ecosystems increase repeated engineering work.

Midstream service providers conduct model selection, domain adaptation, compression, conversion, runtime integration, hardware optimization, application development, agent configuration, performance verification and lifecycle management. Value creation depends on balancing model quality, latency, memory, power consumption, privacy and device coverage rather than maximizing a single benchmark. Downstream customers include device manufacturers, operating-system developers, automotive companies, robot manufacturers, industrial enterprises, healthcare-technology companies, retailers, security providers and enterprise-software developers. Project-based optimization and application development generate initial revenue, while software development kits, per-device licensing, update services and managed model operations support recurring income. Providers with access to multiple hardware ecosystems and large-scale device-

testing capabilities are better positioned to support commercial deployment.

Segment Insights

By service type, model adaptation and compression services form the technical foundation because most cloud-trained multimodal models cannot be transferred directly to constrained devices. On-device inference deployment services focus on runtime integration, operator coverage and processor scheduling, while multimodal application-development services convert model capabilities into user-facing functions. Edge-cloud collaborative services remain important for tasks involving long contexts, large video inputs or complex reasoning. On-device agent services represent a higher-value direction because they connect perception and language understanding with local tools, applications and device controls. End-to-end services integrate model optimization, hardware adaptation, application development, testing, release and continuous maintenance.

By modality count, services supporting two input modalities meet the basic multimodal threshold, while three modalities indicate integrated multimodal capability and four or more represent full-spectrum processing. By inference location, projects with less than 30% of inference completed locally remain cloud-oriented, while a local share between 30% and 70% reflects edge-cloud collaboration. A local inference share of at least 70% represents an edge-primary service, and at least 95% reflects a substantially fully on-device deployment. Model parameter size, offline completion rate, NPU operator coverage, memory usage and sustained generation speed are additional indicators of service maturity. Advanced projects increasingly support at least three modalities, high local-processing ratios and controlled device-agent execution.

Downstream Market Opportunities

Smartphones and AI PCs provide the broadest near-term deployment base for multimodal assistants, image understanding, local document analysis, meeting support, translation and content generation. Automotive customers require models that combine driver speech, camera input, navigation, vehicle status and control functions. Robotics and industrial manufacturing create demand for visual-language-action systems, equipment diagnosis, quality inspection and offline operational guidance. Healthcare applications emphasize local handling of medical images, patient data and sensor signals, while retail and security customers require real-time visual understanding with limited bandwidth. XR devices, smart glasses, wearables and smart-home products

create opportunities for low-power, context-aware interaction. Energy, utilities, transportation and field-service organizations offer additional demand where network coverage is unstable and data must be processed close to the operating site.

Regional Insights

North America has a strong ecosystem of semiconductor companies, operating-system providers, cloud platforms, device manufacturers and AI software developers. The region leads in AI PC, smartphone, automotive and robotics toolchains and has broad demand for local enterprise productivity and privacy-enhanced applications. Europe has established strengths in embedded processors, automotive electronics, industrial automation and edge-semiconductor technologies. European projects frequently emphasize data protection, energy efficiency, industrial reliability and integration with automotive or manufacturing systems.

China has a large installed base of smartphones, consumer electronics, intelligent vehicles, industrial devices and domestic AI platforms, supporting rapid commercialization of device-side models and applications. Local providers combine model development, mobile inference frameworks, terminal manufacturing and industry solutions, while private deployment and domestic chip adaptation remain important requirements. Japan has strong capabilities in imaging sensors, automotive electronics, robotics, industrial equipment and consumer devices. Japanese companies tend to emphasize compact models, hardware-software coordination, energy efficiency and long-term product reliability. Regional competition depends on processor ecosystems, operating-system access, model quality, device shipments, developer tools, local compliance and the ability to validate performance across commercial hardware.

Report Scope

This report studies the global On-Device Multimodal Large Model Service demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for On-Device Multimodal Large Model Service, 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 On-Device Multimodal Large Model Service that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global On-Device Multimodal Large Model Service total market, 2021-2032, (USD Million)

Global On-Device Multimodal Large Model Service total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: On-Device Multimodal Large Model Service total market, key domestic companies, and share, (USD Million)

Global On-Device Multimodal Large Model Service revenue by player, revenue and market share 2021-2026, (USD Million)

Global On-Device Multimodal Large Model Service total market by Type, CAGR, 2021-2032, (USD Million)

Global On-Device Multimodal Large Model Service total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global On-Device Multimodal Large Model Service market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Qualcomm, NVIDIA, Microsoft, Google, Apple, Intel, Arm, NXP Semiconductors, STMicroelectronics, Axelera AI, 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 On-Device Multimodal Large Model Service market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), by player, by regions, 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 On-Device Multimodal Large Model Service Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global On-Device Multimodal Large Model Service Market, Segmentation by Type:

Single-Platform Service (1 Platform)

Multi-Platform Service (2–3 Platforms)

Cross-Ecosystem Service (4–6 Platforms)

Full-Device Ecosystem Service (?7 Platforms)

Global On-Device Multimodal Large Model Service Market, Segmentation by Model Accuracy Retention Rate:

Low-Fidelity Deployment

Standard-Fidelity Deployment

High-Fidelity Deployment

Near-Lossless Deployment

Global On-Device Multimodal Large Model Service Market, Segmentation by Model Compression Ratio:

Light Compression Service

Standard Compression Service

Deep Compression Service

Extreme Compression Service

Global On-Device Multimodal Large Model Service Market, Segmentation by Application:

Consumer Electronics Industry

Automotive Industry

Industrial Manufacturing

Medical Industry

Transportation Industry

Education Industry

Others

Companies Profiled:

Qualcomm

NVIDIA

Microsoft

Google

Apple

Intel

Arm

NXP Semiconductors

STMicroelectronics

Axelera AI

Huawei

Alibaba Cloud

Baidu

SenseTime

Sony Semiconductor Solutions

Renesas Electronics

Fujitsu

NEC

Preferred Networks

Key Questions Answered

1. How big is the global On-Device Multimodal Large Model Service market?
2. What is the demand of the global On-Device Multimodal Large Model Service market?
3. What is the year over year growth of the global On-Device Multimodal Large Model Service market?
4. What is the total value of the global On-Device Multimodal Large Model Service market?
5. Who are the Major Players in the global On-Device Multimodal Large Model Service market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 On-Device Multimodal Large Model Service Introduction
- 1.2 World On-Device Multimodal Large Model Service Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World On-Device Multimodal Large Model Service Total Market by Region (by Headquarter Location)
 - 1.3.1 World On-Device Multimodal Large Model Service Market Size by Region (2021-2032), (by Headquarter Location)
 - 1.3.2 United States Based Company On-Device Multimodal Large Model Service Revenue (2021-2032)
 - 1.3.3 China Based Company On-Device Multimodal Large Model Service Revenue (2021-2032)
 - 1.3.4 Europe Based Company On-Device Multimodal Large Model Service Revenue (2021-2032)
 - 1.3.5 Japan Based Company On-Device Multimodal Large Model Service Revenue (2021-2032)
 - 1.3.6 South Korea Based Company On-Device Multimodal Large Model Service Revenue (2021-2032)
 - 1.3.7 ASEAN Based Company On-Device Multimodal Large Model Service Revenue (2021-2032)
 - 1.3.8 India Based Company On-Device Multimodal Large Model Service Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 On-Device Multimodal Large Model Service Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Major Market Trends

2 DEMAND SUMMARY

- 2.1 World On-Device Multimodal Large Model Service Consumption Value (2021-2032)
- 2.2 World On-Device Multimodal Large Model Service Consumption Value by Region
 - 2.2.1 World On-Device Multimodal Large Model Service Consumption Value by Region (2021-2026)
 - 2.2.2 World On-Device Multimodal Large Model Service Consumption Value Forecast by Region (2027-2032)
- 2.3 United States On-Device Multimodal Large Model Service Consumption Value

(2021-2032)

2.4 China On-Device Multimodal Large Model Service Consumption Value (2021-2032)

2.5 Europe On-Device Multimodal Large Model Service Consumption Value
(2021-2032)

2.6 Japan On-Device Multimodal Large Model Service Consumption Value (2021-2032)

2.7 South Korea On-Device Multimodal Large Model Service Consumption Value
(2021-2032)

2.8 ASEAN On-Device Multimodal Large Model Service Consumption Value
(2021-2032)

2.9 India On-Device Multimodal Large Model Service Consumption Value (2021-2032)

3 WORLD ON-DEVICE MULTIMODAL LARGE MODEL SERVICE COMPANIES COMPETITIVE ANALYSIS

3.1 World On-Device Multimodal Large Model Service Revenue by Player (2021-2026)

3.2 Industry Rank and Concentration Rate (CR)

3.2.1 Global On-Device Multimodal Large Model Service Industry Rank of Major
Players

3.2.2 Global Concentration Ratios (CR4) for On-Device Multimodal Large Model
Service in 2025

3.2.3 Global Concentration Ratios (CR8) for On-Device Multimodal Large Model
Service in 2025

3.3 On-Device Multimodal Large Model Service Company Evaluation Quadrant

3.4 On-Device Multimodal Large Model Service Market: Overall Company Footprint
Analysis

3.4.1 On-Device Multimodal Large Model Service Market: Region Footprint

3.4.2 On-Device Multimodal Large Model Service Market: Company Product Type
Footprint

3.4.3 On-Device Multimodal Large Model Service Market: Company Product
Application Footprint

3.5 Competitive Environment

3.5.1 Historical Structure of the Industry

3.5.2 Barriers of Market Entry

3.5.3 Factors of Competition

3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

4.1 United States VS China: On-Device Multimodal Large Model Service Revenue Comparison (by Headquarter Location)

4.1.1 United States VS China: On-Device Multimodal Large Model Service Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)

4.1.2 United States VS China: On-Device Multimodal Large Model Service Revenue Market Share Comparison (2021 & 2025 & 2032)

4.2 United States Based Companies VS China Based Companies: On-Device Multimodal Large Model Service Consumption Value Comparison

4.2.1 United States VS China: On-Device Multimodal Large Model Service Consumption Value Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: On-Device Multimodal Large Model Service Consumption Value Market Share Comparison (2021 & 2025 & 2032)

4.3 United States Based On-Device Multimodal Large Model Service Companies and Market Share, 2021-2026

4.3.1 United States Based On-Device Multimodal Large Model Service Companies, Headquarters (States, Country)

4.3.2 United States Based Companies On-Device Multimodal Large Model Service Revenue, (2021-2026)

4.4 China Based Companies On-Device Multimodal Large Model Service Revenue and Market Share, 2021-2026

4.4.1 China Based On-Device Multimodal Large Model Service Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies On-Device Multimodal Large Model Service Revenue, (2021-2026)

4.5 Rest of World Based On-Device Multimodal Large Model Service Companies and Market Share, 2021-2026

4.5.1 Rest of World Based On-Device Multimodal Large Model Service Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies On-Device Multimodal Large Model Service Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World On-Device Multimodal Large Model Service Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Single-Platform Service (1 Platform)

5.2.2 Multi-Platform Service (2–3 Platforms)

5.2.3 Cross-Ecosystem Service (4–6 Platforms)

5.2.4 Full-Device Ecosystem Service (?7 Platforms)

5.3 Market Segment by Type

5.3.1 World On-Device Multimodal Large Model Service Market Size by Type (2021-2026)

5.3.2 World On-Device Multimodal Large Model Service Market Size by Type (2027-2032)

5.3.3 World On-Device Multimodal Large Model Service Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY MODEL ACCURACY RETENTION RATE

6.1 World On-Device Multimodal Large Model Service Market Size Overview by Model Accuracy Retention Rate: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Model Accuracy Retention Rate

6.2.1 Low-Fidelity Deployment

6.2.2 Standard-Fidelity Deployment

6.2.3 High-Fidelity Deployment

6.2.4 Near-Lossless Deployment

6.3 Market Segment by Model Accuracy Retention Rate

6.3.1 World On-Device Multimodal Large Model Service Market Size by Model Accuracy Retention Rate (2021-2026)

6.3.2 World On-Device Multimodal Large Model Service Market Size by Model Accuracy Retention Rate (2027-2032)

6.3.3 World On-Device Multimodal Large Model Service Market Size Market Share by Model Accuracy Retention Rate (2027-2032)

7 MARKET ANALYSIS BY MODEL COMPRESSION RATIO

7.1 World On-Device Multimodal Large Model Service Market Size Overview by Model Compression Ratio: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Model Compression Ratio

7.2.1 Light Compression Service

7.2.2 Standard Compression Service

7.2.3 Deep Compression Service

7.2.4 Extreme Compression Service

7.3 Market Segment by Model Compression Ratio

7.3.1 World On-Device Multimodal Large Model Service Market Size by Model Compression Ratio (2021-2026)

7.3.2 World On-Device Multimodal Large Model Service Market Size by Model

Compression Ratio (2027-2032)

7.3.3 World On-Device Multimodal Large Model Service Market Size Market Share by Model Compression Ratio (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World On-Device Multimodal Large Model Service Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Consumer Electronics Industry

8.2.2 Automotive Industry

8.2.3 Industrial Manufacturing

8.2.4 Medical Industry

8.2.5 Transportation Industry

8.2.6 Education Industry

8.2.7 Others

8.3 Market Segment by Application

8.3.1 World On-Device Multimodal Large Model Service Market Size by Application (2021-2026)

8.3.2 World On-Device Multimodal Large Model Service Market Size by Application (2027-2032)

8.3.3 World On-Device Multimodal Large Model Service Market Size Market Share by Application (2021-2032)

9 COMPANY PROFILES

9.1 Qualcomm

9.1.1 Qualcomm Details

9.1.2 Qualcomm Major Business

9.1.3 Qualcomm On-Device Multimodal Large Model Service Product and Services

9.1.4 Qualcomm On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026)

9.1.5 Qualcomm Recent Developments/Updates

9.1.6 Qualcomm Competitive Strengths & Weaknesses

9.2 NVIDIA

9.2.1 NVIDIA Details

9.2.2 NVIDIA Major Business

9.2.3 NVIDIA On-Device Multimodal Large Model Service Product and Services

9.2.4 NVIDIA On-Device Multimodal Large Model Service Revenue, Gross Margin and

Market Share (2021-2026)

9.2.5 NVIDIA Recent Developments/Updates

9.2.6 NVIDIA Competitive Strengths & Weaknesses

9.3 Microsoft

9.3.1 Microsoft Details

9.3.2 Microsoft Major Business

9.3.3 Microsoft On-Device Multimodal Large Model Service Product and Services

9.3.4 Microsoft On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026)

9.3.5 Microsoft Recent Developments/Updates

9.3.6 Microsoft Competitive Strengths & Weaknesses

9.4 Google

9.4.1 Google Details

9.4.2 Google Major Business

9.4.3 Google On-Device Multimodal Large Model Service Product and Services

9.4.4 Google On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026)

9.4.5 Google Recent Developments/Updates

9.4.6 Google Competitive Strengths & Weaknesses

9.5 Apple

9.5.1 Apple Details

9.5.2 Apple Major Business

9.5.3 Apple On-Device Multimodal Large Model Service Product and Services

9.5.4 Apple On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026)

9.5.5 Apple Recent Developments/Updates

9.5.6 Apple Competitive Strengths & Weaknesses

9.6 Intel

9.6.1 Intel Details

9.6.2 Intel Major Business

9.6.3 Intel On-Device Multimodal Large Model Service Product and Services

9.6.4 Intel On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026)

9.6.5 Intel Recent Developments/Updates

9.6.6 Intel Competitive Strengths & Weaknesses

9.7 Arm

9.7.1 Arm Details

9.7.2 Arm Major Business

9.7.3 Arm On-Device Multimodal Large Model Service Product and Services

9.7.4 Arm On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026)

9.7.5 Arm Recent Developments/Updates

9.7.6 Arm Competitive Strengths & Weaknesses

9.8 NXP Semiconductors

9.8.1 NXP Semiconductors Details

9.8.2 NXP Semiconductors Major Business

9.8.3 NXP Semiconductors On-Device Multimodal Large Model Service Product and Services

9.8.4 NXP Semiconductors On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026)

9.8.5 NXP Semiconductors Recent Developments/Updates

9.8.6 NXP Semiconductors Competitive Strengths & Weaknesses

9.9 STMicroelectronics

9.9.1 STMicroelectronics Details

9.9.2 STMicroelectronics Major Business

9.9.3 STMicroelectronics On-Device Multimodal Large Model Service Product and Services

9.9.4 STMicroelectronics On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026)

9.9.5 STMicroelectronics Recent Developments/Updates

9.9.6 STMicroelectronics Competitive Strengths & Weaknesses

9.10 Axelera AI

9.10.1 Axelera AI Details

9.10.2 Axelera AI Major Business

9.10.3 Axelera AI On-Device Multimodal Large Model Service Product and Services

9.10.4 Axelera AI On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026)

9.10.5 Axelera AI Recent Developments/Updates

9.10.6 Axelera AI Competitive Strengths & Weaknesses

9.11 Huawei

9.11.1 Huawei Details

9.11.2 Huawei Major Business

9.11.3 Huawei On-Device Multimodal Large Model Service Product and Services

9.11.4 Huawei On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026)

9.11.5 Huawei Recent Developments/Updates

9.11.6 Huawei Competitive Strengths & Weaknesses

9.12 Alibaba Cloud

- 9.12.1 Alibaba Cloud Details
- 9.12.2 Alibaba Cloud Major Business
- 9.12.3 Alibaba Cloud On-Device Multimodal Large Model Service Product and Services
- 9.12.4 Alibaba Cloud On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026)
- 9.12.5 Alibaba Cloud Recent Developments/Updates
- 9.12.6 Alibaba Cloud Competitive Strengths & Weaknesses
- 9.13 Baidu
 - 9.13.1 Baidu Details
 - 9.13.2 Baidu Major Business
 - 9.13.3 Baidu On-Device Multimodal Large Model Service Product and Services
 - 9.13.4 Baidu On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Baidu Recent Developments/Updates
 - 9.13.6 Baidu Competitive Strengths & Weaknesses
- 9.14 SenseTime
 - 9.14.1 SenseTime Details
 - 9.14.2 SenseTime Major Business
 - 9.14.3 SenseTime On-Device Multimodal Large Model Service Product and Services
 - 9.14.4 SenseTime On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026)
 - 9.14.5 SenseTime Recent Developments/Updates
 - 9.14.6 SenseTime Competitive Strengths & Weaknesses
- 9.15 Sony Semiconductor Solutions
 - 9.15.1 Sony Semiconductor Solutions Details
 - 9.15.2 Sony Semiconductor Solutions Major Business
 - 9.15.3 Sony Semiconductor Solutions On-Device Multimodal Large Model Service Product and Services
 - 9.15.4 Sony Semiconductor Solutions On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Sony Semiconductor Solutions Recent Developments/Updates
 - 9.15.6 Sony Semiconductor Solutions Competitive Strengths & Weaknesses
- 9.16 Renesas Electronics
 - 9.16.1 Renesas Electronics Details
 - 9.16.2 Renesas Electronics Major Business
 - 9.16.3 Renesas Electronics On-Device Multimodal Large Model Service Product and Services
 - 9.16.4 Renesas Electronics On-Device Multimodal Large Model Service Revenue,

Gross Margin and Market Share (2021-2026)

9.16.5 Renesas Electronics Recent Developments/Updates

9.16.6 Renesas Electronics Competitive Strengths & Weaknesses

9.17 Fujitsu

9.17.1 Fujitsu Details

9.17.2 Fujitsu Major Business

9.17.3 Fujitsu On-Device Multimodal Large Model Service Product and Services

9.17.4 Fujitsu On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026)

9.17.5 Fujitsu Recent Developments/Updates

9.17.6 Fujitsu Competitive Strengths & Weaknesses

9.18 NEC

9.18.1 NEC Details

9.18.2 NEC Major Business

9.18.3 NEC On-Device Multimodal Large Model Service Product and Services

9.18.4 NEC On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026)

9.18.5 NEC Recent Developments/Updates

9.18.6 NEC Competitive Strengths & Weaknesses

9.19 Preferred Networks

9.19.1 Preferred Networks Details

9.19.2 Preferred Networks Major Business

9.19.3 Preferred Networks On-Device Multimodal Large Model Service Product and Services

9.19.4 Preferred Networks On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026)

9.19.5 Preferred Networks Recent Developments/Updates

9.19.6 Preferred Networks Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 On-Device Multimodal Large Model Service Industry Chain

10.2 On-Device Multimodal Large Model Service Upstream Analysis

10.3 On-Device Multimodal Large Model Service Midstream Analysis

10.4 On-Device Multimodal Large Model Service Downstream Analysis

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World On-Device Multimodal Large Model Service Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World On-Device Multimodal Large Model Service Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World On-Device Multimodal Large Model Service Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World On-Device Multimodal Large Model Service Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World On-Device Multimodal Large Model Service Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World On-Device Multimodal Large Model Service Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World On-Device Multimodal Large Model Service Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World On-Device Multimodal Large Model Service Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World On-Device Multimodal Large Model Service Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key On-Device Multimodal Large Model Service Players in 2025

Table 12. World On-Device Multimodal Large Model Service Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global On-Device Multimodal Large Model Service Company Evaluation Quadrant

Table 14. Head Office of Key On-Device Multimodal Large Model Service Players

Table 15. On-Device Multimodal Large Model Service Market: Company Product Type Footprint

Table 16. On-Device Multimodal Large Model Service Market: Company Product Application Footprint

Table 17. On-Device Multimodal Large Model Service Mergers & Acquisitions Activity

Table 18. United States VS China On-Device Multimodal Large Model Service Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China On-Device Multimodal Large Model Service Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based On-Device Multimodal Large Model Service Companies, Headquarters (States, Country)

Table 21. United States Based Companies On-Device Multimodal Large Model Service Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies On-Device Multimodal Large Model Service Revenue Market Share (2021-2026)

Table 23. China Based On-Device Multimodal Large Model Service Companies, Headquarters (Province, Country)

Table 24. China Based Companies On-Device Multimodal Large Model Service Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies On-Device Multimodal Large Model Service Revenue Market Share (2021-2026)

Table 26. Rest of World Based On-Device Multimodal Large Model Service Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies On-Device Multimodal Large Model Service Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies On-Device Multimodal Large Model Service Revenue Market Share (2021-2026)

Table 29. World On-Device Multimodal Large Model Service Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World On-Device Multimodal Large Model Service Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World On-Device Multimodal Large Model Service Market Size by Type (2027-2032) & (USD Million)

Table 32. World On-Device Multimodal Large Model Service Market Size by Model Accuracy Retention Rate, (USD Million), 2021 & 2025 & 2032

Table 33. World On-Device Multimodal Large Model Service Market Size Value by Model Accuracy Retention Rate (2021-2026) & (USD Million)

Table 34. World On-Device Multimodal Large Model Service Market Size by Model Accuracy Retention Rate (2027-2032) & (USD Million)

Table 35. World On-Device Multimodal Large Model Service Market Size by Model Compression Ratio, (USD Million), 2021 & 2025 & 2032

Table 36. World On-Device Multimodal Large Model Service Market Size Value by Model Compression Ratio (2021-2026) & (USD Million)

Table 37. World On-Device Multimodal Large Model Service Market Size by Model Compression Ratio (2027-2032) & (USD Million)

Table 38. World On-Device Multimodal Large Model Service Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 39. World On-Device Multimodal Large Model Service Market Size by Application

(2021-2026) & (USD Million)

Table 40. World On-Device Multimodal Large Model Service Market Size by Application
(2027-2032) & (USD Million)

Table 41. Qualcomm Basic Information, Manufacturing Base and Competitors

Table 42. Qualcomm Major Business

Table 43. Qualcomm On-Device Multimodal Large Model Service Product and Services

Table 44. Qualcomm On-Device Multimodal Large Model Service Revenue, Gross
Margin and Market Share (2021-2026) & (USD Million)

Table 45. Qualcomm Recent Developments/Updates

Table 46. Qualcomm Competitive Strengths & Weaknesses

Table 47. NVIDIA Basic Information, Manufacturing Base and Competitors

Table 48. NVIDIA Major Business

Table 49. NVIDIA On-Device Multimodal Large Model Service Product and Services

Table 50. NVIDIA On-Device Multimodal Large Model Service Revenue, Gross Margin
and Market Share (2021-2026) & (USD Million)

Table 51. NVIDIA Recent Developments/Updates

Table 52. NVIDIA Competitive Strengths & Weaknesses

Table 53. Microsoft Basic Information, Manufacturing Base and Competitors

Table 54. Microsoft Major Business

Table 55. Microsoft On-Device Multimodal Large Model Service Product and Services

Table 56. Microsoft On-Device Multimodal Large Model Service Revenue, Gross Margin
and Market Share (2021-2026) & (USD Million)

Table 57. Microsoft Recent Developments/Updates

Table 58. Microsoft Competitive Strengths & Weaknesses

Table 59. Google Basic Information, Manufacturing Base and Competitors

Table 60. Google Major Business

Table 61. Google On-Device Multimodal Large Model Service Product and Services

Table 62. Google On-Device Multimodal Large Model Service Revenue, Gross Margin
and Market Share (2021-2026) & (USD Million)

Table 63. Google Recent Developments/Updates

Table 64. Google Competitive Strengths & Weaknesses

Table 65. Apple Basic Information, Manufacturing Base and Competitors

Table 66. Apple Major Business

Table 67. Apple On-Device Multimodal Large Model Service Product and Services

Table 68. Apple On-Device Multimodal Large Model Service Revenue, Gross Margin
and Market Share (2021-2026) & (USD Million)

Table 69. Apple Recent Developments/Updates

Table 70. Apple Competitive Strengths & Weaknesses

Table 71. Intel Basic Information, Manufacturing Base and Competitors

Table 72. Intel Major Business

Table 73. Intel On-Device Multimodal Large Model Service Product and Services

Table 74. Intel On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 75. Intel Recent Developments/Updates

Table 76. Intel Competitive Strengths & Weaknesses

Table 77. Arm Basic Information, Manufacturing Base and Competitors

Table 78. Arm Major Business

Table 79. Arm On-Device Multimodal Large Model Service Product and Services

Table 80. Arm On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 81. Arm Recent Developments/Updates

Table 82. Arm Competitive Strengths & Weaknesses

Table 83. NXP Semiconductors Basic Information, Manufacturing Base and Competitors

Table 84. NXP Semiconductors Major Business

Table 85. NXP Semiconductors On-Device Multimodal Large Model Service Product and Services

Table 86. NXP Semiconductors On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 87. NXP Semiconductors Recent Developments/Updates

Table 88. NXP Semiconductors Competitive Strengths & Weaknesses

Table 89. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 90. STMicroelectronics Major Business

Table 91. STMicroelectronics On-Device Multimodal Large Model Service Product and Services

Table 92. STMicroelectronics On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 93. STMicroelectronics Recent Developments/Updates

Table 94. STMicroelectronics Competitive Strengths & Weaknesses

Table 95. Axelera AI Basic Information, Manufacturing Base and Competitors

Table 96. Axelera AI Major Business

Table 97. Axelera AI On-Device Multimodal Large Model Service Product and Services

Table 98. Axelera AI On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 99. Axelera AI Recent Developments/Updates

Table 100. Axelera AI Competitive Strengths & Weaknesses

Table 101. Huawei Basic Information, Manufacturing Base and Competitors

Table 102. Huawei Major Business

Table 103. Huawei On-Device Multimodal Large Model Service Product and Services
Table 104. Huawei On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 105. Huawei Recent Developments/Updates
Table 106. Huawei Competitive Strengths & Weaknesses
Table 107. Alibaba Cloud Basic Information, Manufacturing Base and Competitors
Table 108. Alibaba Cloud Major Business
Table 109. Alibaba Cloud On-Device Multimodal Large Model Service Product and Services
Table 110. Alibaba Cloud On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 111. Alibaba Cloud Recent Developments/Updates
Table 112. Alibaba Cloud Competitive Strengths & Weaknesses
Table 113. Baidu Basic Information, Manufacturing Base and Competitors
Table 114. Baidu Major Business
Table 115. Baidu On-Device Multimodal Large Model Service Product and Services
Table 116. Baidu On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 117. Baidu Recent Developments/Updates
Table 118. Baidu Competitive Strengths & Weaknesses
Table 119. SenseTime Basic Information, Manufacturing Base and Competitors
Table 120. SenseTime Major Business
Table 121. SenseTime On-Device Multimodal Large Model Service Product and Services
Table 122. SenseTime On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 123. SenseTime Recent Developments/Updates
Table 124. SenseTime Competitive Strengths & Weaknesses
Table 125. Sony Semiconductor Solutions Basic Information, Manufacturing Base and Competitors
Table 126. Sony Semiconductor Solutions Major Business
Table 127. Sony Semiconductor Solutions On-Device Multimodal Large Model Service Product and Services
Table 128. Sony Semiconductor Solutions On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 129. Sony Semiconductor Solutions Recent Developments/Updates
Table 130. Sony Semiconductor Solutions Competitive Strengths & Weaknesses
Table 131. Renesas Electronics Basic Information, Manufacturing Base and Competitors

Table 132. Renesas Electronics Major Business

Table 133. Renesas Electronics On-Device Multimodal Large Model Service Product and Services

Table 134. Renesas Electronics On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 135. Renesas Electronics Recent Developments/Updates

Table 136. Renesas Electronics Competitive Strengths & Weaknesses

Table 137. Fujitsu Basic Information, Manufacturing Base and Competitors

Table 138. Fujitsu Major Business

Table 139. Fujitsu On-Device Multimodal Large Model Service Product and Services

Table 140. Fujitsu On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 141. Fujitsu Recent Developments/Updates

Table 142. Fujitsu Competitive Strengths & Weaknesses

Table 143. NEC Basic Information, Manufacturing Base and Competitors

Table 144. NEC Major Business

Table 145. NEC On-Device Multimodal Large Model Service Product and Services

Table 146. NEC On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 147. NEC Recent Developments/Updates

Table 148. NEC Competitive Strengths & Weaknesses

Table 149. Preferred Networks Basic Information, Manufacturing Base and Competitors

Table 150. Preferred Networks Major Business

Table 151. Preferred Networks On-Device Multimodal Large Model Service Product and Services

Table 152. Preferred Networks On-Device Multimodal Large Model Service Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 153. Preferred Networks Recent Developments/Updates

Table 154. Preferred Networks Competitive Strengths & Weaknesses

Table 155. Global Key Players of On-Device Multimodal Large Model Service Upstream (Raw Materials)

Table 156. Global On-Device Multimodal Large Model Service Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. On-Device Multimodal Large Model Service Picture

Figure 2. World On-Device Multimodal Large Model Service Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World On-Device Multimodal Large Model Service Total Revenue (2021-2032) & (USD Million)

Figure 4. World On-Device Multimodal Large Model Service Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World On-Device Multimodal Large Model Service Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company On-Device Multimodal Large Model Service Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company On-Device Multimodal Large Model Service Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company On-Device Multimodal Large Model Service Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company On-Device Multimodal Large Model Service Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company On-Device Multimodal Large Model Service Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company On-Device Multimodal Large Model Service Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company On-Device Multimodal Large Model Service Revenue (2021-2032) & (USD Million)

Figure 13. On-Device Multimodal Large Model Service Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World On-Device Multimodal Large Model Service Consumption Value (2021-2032) & (USD Million)

Figure 16. World On-Device Multimodal Large Model Service Consumption Value Market Share by Region (2021-2032)

Figure 17. United States On-Device Multimodal Large Model Service Consumption Value (2021-2032) & (USD Million)

Figure 18. China On-Device Multimodal Large Model Service Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe On-Device Multimodal Large Model Service Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan On-Device Multimodal Large Model Service Consumption Value (2021-2032) & (USD Million)

Figure 21. South Korea On-Device Multimodal Large Model Service Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN On-Device Multimodal Large Model Service Consumption Value (2021-2032) & (USD Million)

Figure 23. India On-Device Multimodal Large Model Service Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of On-Device Multimodal Large Model Service by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for On-Device Multimodal Large Model Service Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for On-Device Multimodal Large Model Service Markets in 2025

Figure 27. United States VS China: On-Device Multimodal Large Model Service Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: On-Device Multimodal Large Model Service Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World On-Device Multimodal Large Model Service Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World On-Device Multimodal Large Model Service Market Size Market Share by Type in 2025

Figure 31. Single-Platform Service (1 Platform)

Figure 32. Multi-Platform Service (2–3 Platforms)

Figure 33. Cross-Ecosystem Service (4–6 Platforms)

Figure 34. Full-Device Ecosystem Service (?7 Platforms)

Figure 35. World On-Device Multimodal Large Model Service Market Size Market Share by Type (2021-2032)

Figure 36. World On-Device Multimodal Large Model Service Market Size by Model Accuracy Retention Rate, (USD Million), 2021 & 2025 & 2032

Figure 37. World On-Device Multimodal Large Model Service Market Size Market Share by Model Accuracy Retention Rate in 2025

Figure 38. Low-Fidelity Deployment

Figure 39. Standard-Fidelity Deployment

Figure 40. High-Fidelity Deployment

Figure 41. Near-Lossless Deployment

Figure 42. World On-Device Multimodal Large Model Service Market Size Market Share by Model Accuracy Retention Rate (2021-2032)

Figure 43. World On-Device Multimodal Large Model Service Market Size by Model

Compression Ratio, (USD Million), 2021 & 2025 & 2032

Figure 44. World On-Device Multimodal Large Model Service Market Size Market Share by Model Compression Ratio in 2025

Figure 45. Light Compression Service

Figure 46. Standard Compression Service

Figure 47. Deep Compression Service

Figure 48. Extreme Compression Service

Figure 49. World On-Device Multimodal Large Model Service Market Size Market Share by Model Compression Ratio (2021-2032)

Figure 50. World On-Device Multimodal Large Model Service Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 51. World On-Device Multimodal Large Model Service Market Size Market Share by Application in 2025

Figure 52. Consumer Electronics Industry

Figure 53. Automotive Industry

Figure 54. Industrial Manufacturing

Figure 55. Medical Industry

Figure 56. Transportation Industry

Figure 57. Education Industry

Figure 58. Others

Figure 59. World On-Device Multimodal Large Model Service Market Size Market Share by Application (2021-2032)

Figure 60. On-Device Multimodal Large Model Service Industrial Chain

Figure 61. Methodology

Figure 62. Research Process and Data Source

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