

Global AI-centric Smartphone SoC Market Growth 2026-2032

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Abstracts

The global AI-centric Smartphone SoC market size is predicted to grow from US\$ 7275 million in 2025 to US\$ 43609 million in 2032; it is expected to grow at a CAGR of 29.2% from 2026 to 2032.

AI-centric Smartphone SoCs are system-on-chip processors designed with artificial intelligence as a core architectural priority, integrating high-performance NPUs, CPUs, GPUs, and memory controllers to support on-device and hybrid generative AI workloads. These SoCs enable real-time inference, multimodal processing, and system-level AI functions in smartphones, forming the hardware foundation of GenAI-powered devices.

AI-centric Smartphone SoCs are segmented by AI deployment (on-device, hybrid), NPU performance tiers, process nodes, GenAI workload optimization, and target market positioning, enabling quantitative comparison across performance, cost, and application requirements.

In 2025, global AI-centric Smartphone SoC production reaches approximately 201 million units, with an average global market price of around US\$37 per unit, reflecting rapid adoption in premium and upper-mid smartphone tiers.

Upstream, the AI-centric Smartphone SoC market depends on advanced logic foundries, IP licensors, and EDA tool providers. Key inputs include leading-edge semiconductor manufacturing processes, CPU and GPU IP cores, AI accelerator architectures, and high-performance memory interfaces. Foundry capacity, yield management, and access to advanced packaging technologies are critical factors influencing supply stability and product competitiveness.

Downstream, AI-centric Smartphone SoCs are supplied primarily to smartphone OEMs and integrated device manufacturers, either as merchant silicon or in-house designs. Device makers integrate these SoCs with operating systems, AI frameworks, and cloud services to deliver differentiated GenAI features. Distribution is tightly linked to flagship and premium-mid smartphone launches, with demand shaped by consumer upgrade cycles and AI feature adoption.

LP Information, Inc. (LPI) ' newest research report, the “AI-centric Smartphone SoC Industry Forecast” looks at past sales and reviews total world AI-centric Smartphone SoC sales in 2025, providing a comprehensive analysis by region and market sector of projected AI-centric Smartphone SoC sales for 2026 through 2032. With AI-centric Smartphone SoC sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI-centric Smartphone SoC industry.

This Insight Report provides a comprehensive analysis of the global AI-centric Smartphone SoC landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on AI-centric Smartphone SoC portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AI-centric Smartphone SoC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI-centric Smartphone SoC and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AI-centric Smartphone SoC.

This report presents a comprehensive overview, market shares, and growth opportunities of AI-centric Smartphone SoC market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

On-device AI-centric SoC

Hybrid AI-centric SoC

Cloud-assisted AI SoC

Segmentation by AI Compute Capability (NPU Performance Tier):

Ultra-high AI Compute SoC

High AI Compute SoC

Mainstream AI Compute SoC

Entry AI-capable SoC

Segmentation by Model Optimization & GenAI Support:

GenAI-optimized SoC

LLM-centric SoC

Multimodal-centric SoC

Others

Segmentation by Application:

Android

iPhone

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

MediaTek

Qualcomm

Apple

Spreadtrum

Samsung

Huawei

Key Questions Addressed in this Report

What is the 10-year outlook for the global AI-centric Smartphone SoC market?

What factors are driving AI-centric Smartphone SoC market growth, globally and by region?

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

How do AI-centric Smartphone SoC market opportunities vary by end market size?

How does AI-centric Smartphone SoC break out by Type, by Application?

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