

Global AI-centric Smartphone SoC Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global AI-centric Smartphone SoC market size was valued at US\$ 7652 million in 2025 and is forecast to a readjusted size of US\$ 42337 million by 2032 with a CAGR of 27.5% during review period.

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.

This report is a detailed and comprehensive analysis for global AI-centric Smartphone SoC market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global AI-centric Smartphone SoC market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AI-centric Smartphone SoC market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AI-centric Smartphone SoC market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AI-centric Smartphone SoC market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for AI-centric Smartphone SoC
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global AI-centric Smartphone SoC market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include MediaTek, Qualcomm, Apple, Spreadtrum, Samsung, Huawei, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

AI-centric Smartphone SoC market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

On-device AI-centric SoC

Hybrid AI-centric SoC

Cloud-assisted AI SoC

Market segment by AI Compute Capability (NPU Performance Tier)

Ultra-high AI Compute SoC

High AI Compute SoC

Mainstream AI Compute SoC

Entry AI-capable SoC

Market segment by Model Optimization & GenAI Support

GenAI-optimized SoC

LLM-centric SoC

Multimodal-centric SoC

Others

Market segment by Application

Android

iPhone

Major players covered

MediaTek

Qualcomm

Apple

Spreadtrum

Samsung

Huawei

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe AI-centric Smartphone SoC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI-centric Smartphone SoC, with price, sales quantity, revenue, and global market share of AI-centric Smartphone SoC from 2021 to 2026.

Chapter 3, the AI-centric Smartphone SoC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI-centric Smartphone SoC breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and AI-centric Smartphone SoC market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of AI-centric Smartphone SoC.

Chapter 14 and 15, to describe AI-centric Smartphone SoC sales channel, distributors, customers, research findings and conclusion.

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