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Global Mobile Digital ICs 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 Mobile Digital ICs market size was valued at US$ 33651 million in 2025 and is forecast to a readjusted size of US$ 62984 million by 2032 with a CAGR of 9.3% during review period.

Mobile digital integrated circuits are the core digital chips used in smartphones, tablets, smartwatches, TWS earbuds, smart glasses, and mobile broadband terminals, primarily addressing device requirements for computing, communications, storage, graphics, multimedia, and on-device AI with a balance of performance, power efficiency, and integration. Their mainstream forms include mobile application processors or system-on-chips, cellular basebands and modems, connectivity chips for Wi?Fi, Bluetooth, and UWB, LPDDR and UFS memory products for mobile devices, as well as wearable or audio SoCs. The technology paradigm is evolving from traditional CPU-plus-GPU platforms toward heterogeneous computing platforms with tightly coordinated CPU, GPU, NPU, ISP, 5G, Wi?Fi, and security subsystems, with advanced process nodes, low-power design, high-speed memory interfaces, imaging pipelines, and local large-model inference becoming key competitive factors. Typical customers include smartphone brands, ODMs and OEMs, wearable device makers, operator terminal customers, and mobile internet hardware vendors. Delivery models include merchant standard chips and platform solutions sold to the open market, self-designed and self-used chips centered on integrated devices such as those of Apple and Google, and mobile memory and flash products sold by capacity, speed, and generation by suppliers such as Micron, KIOXIA, and SK hynix.

Mobile digital integrated circuits are evolving from traditional smartphone application processors into comprehensive platforms spanning compute, connectivity, imaging,

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storage, and on-device AI. In the past, competition was centered more on CPU frequency, modem generation, and graphics performance. However, based on how major vendors now present their offerings on official product pages, platform capability is clearly being redefined to include NPUs, AI ISPs, Wi?Fi 7, UWB, security subsystems, always-on sensing, and higher-bandwidth LPDDR and UFS interfaces. As a result, the value of mobile digital ICs no longer depends only on benchmark performance, but increasingly on the complete device experience, including generative AI, real-time translation, computational photography, continuous connectivity, gaming frame stability, and battery life. For device brands, this means chip selection is no longer just a procurement decision, but part of product definition itself. For chip vendors, it means that hardware, software enablement, reference design, ecosystem adaptation, and scenario-specific optimization must be delivered together in order to expand share in premium and differentiated markets.

From a regional perspective, the mobile digital IC industry chain is moving toward clearer specialization and stronger policy influence. U.S. companies still hold substantial definition power in premium mobile platforms, self-designed terminal chips, and platform ecosystems. Korea remains highly important in mobile processors and high-end DRAM and NAND, while Japan maintains a stable role in mobile flash and selected low-power connectivity devices. Mainland China and Taiwan are continuing to expand their presence in merchant smartphone SoCs, wearable SoCs, cellular basebands, and a range of mobile terminal processors. At the same time, policy variables are becoming more important. China continues to support domestic chip design through integrated-circuit enterprise lists, tax incentives, and value-added tax super-deductions. Korea is strengthening its semiconductor ecosystem through dedicated funds, and Japan is continuing to support advanced semiconductor capacity through budgets and industrial policy. For mobile digital ICs, these policies do not change the consumer-electronics nature of the market, but they do materially influence R&D pace, customer confidence, and regional supply resilience.

Looking ahead, the industry outlook remains constructive, but growth sources will become far more diversified. On one hand, smartphones will remain the largest shipment base, and on-device AI, 5G Advanced, Wi?Fi 7, high-speed memory, and stronger imaging pipelines will continue to drive upgrades in flagship and upper-mid-tier devices. On the other hand, watches, earbuds, glasses, portable displays, MiFi devices, and RedCap terminals will create additional demand that is lighter in silicon content per unit but higher in deployment frequency. Most importantly, the boundary of mobile digital ICs is expanding from a smartphone-centered concept toward broader personal mobile computing. Tablets, high-performance wearables, smart glasses, and lightweight

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mobile broadband terminals are increasingly sharing the same low-power heterogeneous computing logic. As long as vendors can balance compute, power efficiency, connectivity, storage, and ecosystem support more effectively, value creation over the next two years will come not only from smartphone replacement cycles, but also from new device-category penetration and smart-device upgrades across more regional markets.

This report is a detailed and comprehensive analysis for global Mobile Digital ICs 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 Mobile Digital ICs market size and forecasts, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Mobile Digital ICs market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Mobile Digital ICs market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Mobile Digital ICs market shares of main players, shipments in revenue ($ Million), sales quantity (Million 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 Mobile Digital ICs
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 Mobile Digital ICs market based on the following parameters - company overview, sales quantity, revenue, price, gross margin,

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product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Texas Instruments, Qualcomm, STMicroelectronics, Infineon, NXP, Renesas, MediaTek Inc., Microchip, Apple Inc., Google LLC, etc.
This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Mobile Digital ICs 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

Small and Medium Power

High Power

Market segment by Chip Function

Main Compute Chips

Connectivity & Communication Chips

Memory Chips

Market segment by Integration Level

Single-Chip SoC

Discrete Companion Chips

Market segment by Application

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Adapter and Charger

Consumer Electronics

LED Lighting

Vehicle Electronics

Others

Major players covered

Texas Instruments

Qualcomm

STMicroelectronics

Infineon

NXP

Renesas

MediaTek Inc.

Microchip

Apple Inc.

Google LLC

Samsung Electronics Co., Ltd.

Micron Technology, Inc.

SK hynix Inc.

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KIOXIA Corporation

UNISOC

HiSilicon

ASR Microelectronics Co., Ltd.

Rockchip Electronics Co., Ltd.

Allwinner Technology Co., Ltd.

Bestechnic (Shanghai) Co., Ltd.

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 Mobile Digital ICs product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Mobile Digital ICs, with price, sales quantity, revenue, and global market share of Mobile Digital ICs from 2021 to 2026.

Chapter 3, the Mobile Digital ICs competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Mobile Digital ICs breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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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 Mobile Digital ICs 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 Mobile Digital ICs.

Chapter 14 and 15, to describe Mobile Digital ICs sales channel, distributors, customers, research findings and conclusion.

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3 COMPETITIVE ENVIRONMENT: MOBILE DIGITAL ICS BY MANUFACTURER

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