

Global HD Haptic Driver IC 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 HD Haptic Driver IC market size was valued at US\$ 576 million in 2025 and is forecast to a readjusted size of US\$ 876 million by 2032 with a CAGR of 6.2% during review period.

HD haptic driver ICs are specialized mixed-signal chips positioned at the bottom of the human-machine interaction stack. Their core task is to convert touch, press, audio, or system events into programmable, low-latency, and highly consistent tactile feedback, while driving different types of actuators including ERM, LRA, and in some cases piezo devices. Unlike earlier motor drivers that mainly delivered simple vibration output, this category has evolved into a system-level capability set that integrates closed-loop control, LRA resonance detection and tracking, automatic overdrive and braking, fault diagnostics, battery compensation, waveform libraries or on-chip SRAM, audio-to-haptics, DSP algorithms, and digital interfaces such as I2C, PWM, and trigger pins, in order to generate clearer, sharper, and more nuanced HD tactile effects. Official product pages show that these devices are primarily targeted at smartphones, tablets, laptops, wearables, gaming platforms, AR, VR, and XR devices, as well as selected automotive and industrial human-machine interface scenarios, with direct customers typically including OEMs, ODMs, module makers, and system solution providers. The most common delivery form is a standalone driver IC, usually accompanied by datasheets, evaluation boards, tuning GUIs, firmware, or reference designs. The business model remains centered on chip sales plus design-in and haptic tuning support, while product competitiveness is increasingly defined by algorithm capability, power efficiency, protection design, and mass-production consistency. For end-device brands, the problem being solved is no longer whether a device can vibrate, but whether it can maintain consistent and repeatable button replacement, notification, gaming interaction,

audio-display, and force-feedback experiences across variations in battery level, temperature, mechanical structure, and actuator-to-actuator differences.

HD haptic driver ICs are evolving from what used to be niche functional devices into foundational chips that increasingly determine the quality of end-device interaction. Official product pages make it clear that competition in this segment is no longer centered simply on whether a motor can be driven, but on whether high-quality, low-latency, and highly consistent tactile output can be achieved under limited battery conditions. TI integrates effect libraries, closed-loop control, and Audio to Vibe into a single chip. Renesas positions drive capability up to 1kHz, ultra-low idle current, and LRA resonance tracking as core strengths. Cirrus extends the category further by turning DSP, Sensor Less Velocity Control, and audio-coupled haptics into platform-level capabilities. Awinic and ZINITIX continue to strengthen F0 detection, auto tracking, auto braking, and protection design. This shows that the market is moving away from competition among basic motor drivers and toward competition in algorithms, control, power efficiency, protection, and production consistency. The companies that can most reliably convert touch, press, notification, gaming, and audio content into high-definition tactile effects will be in the strongest position to enter premium devices and next-generation human-machine interfaces built around button replacement.

On the downstream side, smartphones and wearables remain the most stable core market for HD haptic driver ICs, but the growth logic is clearly extending beyond them. Renesas, Goodix, Chipsea, and ZINITIX all explicitly point to smartphones, smartwatches, or wearables, which shows that consumer electronics still forms the base of shipments and customer validation. At the same time, Cirrus explicitly promotes HD haptics in gaming, movies, and music, ZINITIX lists AR, VR, XR, and game consoles as target applications, and Goodix and Chipsea extend their product positioning to tablets, laptops, PCs, and automotive-related scenarios. This means tactile feedback is expanding from simple smartphone notification vibration into a unified interaction language across multiple device categories. More importantly, vendors are no longer selling only a chip. They are also providing evaluation boards, GUIs, firmware, and reference designs that help customers shorten tuning cycles and accelerate system integration. This hardware plus software delivery model is likely to make haptic driver ICs more platform-like in the future, rather than leaving them as a narrow functional component within a bill of materials.

From the perspective of regional structure and future outlook, the currently public and verifiable active suppliers are mainly concentrated in the United States, Japan, South Korea, and mainland China, indicating that this segment has already developed a

mature cross-regional division of labor. U.S. vendors are stronger in algorithm platformization and high-end system integration. Japanese vendors retain advantages in low power, high reliability, and precision analog drive. Korean vendors continue to build out mobile and gaming haptics. Mainland Chinese vendors are moving quickly in smartphones, wearables, and domestic customer design-ins. At the same time, official pages repeatedly emphasize low power consumption, thermal protection, short-circuit protection, overcurrent protection, fault diagnostics, and wide operating temperature capability, which suggests that the market is shifting from a pure user-experience upgrade story toward one that increasingly layers in compliance and reliability barriers. As buttonless design becomes more common, immersive mobile gaming demand rises, XR interaction deepens, and automotive cockpit and industrial HMI systems require higher-quality tactile confirmation, HD haptic driver ICs still appear to be in a growth stage that supports an optimistic view. The next phase of value creation is likely to center on algorithm libraries, tuning tools, and closer co-design with complete devices.

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

Global HD Haptic Driver IC 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 HD Haptic Driver IC 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 HD Haptic Driver IC 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 HD Haptic Driver IC

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 HD Haptic Driver IC 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 Texas Instruments Incorporated, Cirrus Logic, Inc., Analog Devices, Inc., Microchip Technology Inc., Renesas Electronics Corporation, Nisshinbo Micro Devices Inc., ZINITIX Co., Ltd., DONGWOON ANATECH CO., LTD., IMAGIS Co.,Ltd., Shanghai Awinic Technology Co., Ltd., etc.

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

Market Segmentation

HD Haptic Driver IC 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

LRA (Linear Resonance Actuator) Driver IC

ERM (Eccentric Rotating Mass) Driver IC

Piezo Driver IC

Market segment by Control Mode

Closed-Loop Drive

Open-Loop Drive

Open-/Closed-Loop Dual Mode

Market segment by Power And Drive Architecture

Direct Supply

Integrated Boost

Boost + H-Bridge

High-Voltage Amplifier

Market segment by Application

Smart Phone

Wearable Devices

Automotive

PC

Gaming Console

Personal Medical

Others

Major players covered

Texas Instruments Incorporated

Cirrus Logic, Inc.

Analog Devices, Inc.

Microchip Technology Inc.

Renesas Electronics Corporation

Nisshinbo Micro Devices Inc.

ZINITIX Co., Ltd.

DONGWOON ANATECH CO., LTD.

IMAGIS Co.,Ltd.

Shanghai Awinic Technology Co., Ltd.

Shenzhen Goodix Technology Co., Ltd.

Chipsea Technologies (Shenzhen) Corp.

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 HD Haptic Driver IC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of HD Haptic Driver IC, with price, sales quantity, revenue, and global market share of HD Haptic Driver IC from 2021 to 2026.

Chapter 3, the HD Haptic Driver IC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the HD Haptic Driver IC 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 HD Haptic Driver IC 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 HD Haptic Driver IC.

Chapter 14 and 15, to describe HD Haptic Driver IC sales channel, distributors, customers, research findings and conclusion.

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