

Global Force Sensing IC Market Growth 2026-2032

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Abstracts

The global Force Sensing IC market size is predicted to grow from US\$ 3031 million in 2025 to US\$ 6350 million in 2032; it is expected to grow at a CAGR of 11.2% from 2026 to 2032.

A Force Sensing IC is an integrated circuit designed to convert mechanical force, pressure, or touch input into an electrical signal. It typically interfaces with force sensors such as piezoresistive, capacitive, or strain-gauge elements, performing signal conditioning, amplification, filtering, and analog-to-digital conversion. Some advanced Force Sensing ICs also integrate calibration, temperature compensation, and digital communication interfaces for use in robotics, consumer electronics, medical devices, and industrial sensing systems. In 2025, global Force Sensing IC production reached approximately 1.675 B units, with an average global market price of around US\$ 1.85 per unit. Annual production capacity is 1.95 B Units. Gross Profit Margin: 42%. The Force Sensing IC industry chain is structured around upstream semiconductor fabrication and MEMS process platforms, where silicon wafers, piezoresistive materials, and precision analog design form the core technological foundation. Midstream players focus on IC design, signal conditioning, calibration, and system integration, often combining ASICs with MEMS pressure or tactile sensing elements. Downstream demand is driven by industrial automation, automotive electronics, robotics, and consumer electronics, where force feedback, safety monitoring, and human-machine interaction are key use cases. This product category sits at the intersection of sensing hardware and intelligent control systems, where incremental improvements in accuracy, integration, and power efficiency can significantly expand application boundaries. As robotics and intelligent devices become more prevalent, demand is shifting from simple pressure detection toward high-resolution force feedback and multi-axis tactile sensing, pushing IC-level integration toward higher complexity and value density.

United States market for Force Sensing IC is estimated to increase from US\$ million in

2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Force Sensing IC is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Force Sensing IC is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Force Sensing IC players cover Texas Instruments, Analog Devices, Infineon Technologies, STMicroelectronics, NXP Semiconductors, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Force Sensing IC 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 Force Sensing IC portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Force Sensing IC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Force Sensing IC and breaks down the forecast by Precision / Performance Grade, 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 Force Sensing IC.

This report presents a comprehensive overview, market shares, and growth opportunities of Force Sensing IC market by product type, application, key manufacturers and key regions and countries.

Segmentation by Precision / Performance Grade:

Low Precision (

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