

Global Force Sensing 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 Force Sensing IC market size was valued at US\$ 3188 million in 2025 and is forecast to a readjusted size of US\$ 6445 million by 2032 with a CAGR of 10.5% during review period.

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.

This report is a detailed and comprehensive analysis for global Force Sensing IC market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Precision / Performance Grade 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 Force Sensing IC market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Force Sensing 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 Force Sensing IC market size and forecasts, by Precision / Performance Grade and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Force Sensing 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 Force Sensing 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 Force Sensing 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, Analog Devices, Infineon Technologies, STMicroelectronics, NXP Semiconductors, Bosch Sensortec, Ams Osram, Renesas Electronics, ROHM Semiconductor, Microchip Technology, etc.

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

Market Segmentation

Force Sensing IC market is split by Precision / Performance Grade and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Precision / Performance Grade, 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 Precision / Performance Grade

Low Precision (

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