

Global Tactile Sensor Interface IC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Tactile Sensor Interface IC market size is expected to reach \$ 6718 million by 2032, rising at a market growth of 11.3% CAGR during the forecast period (2026-2032).

A Tactile Sensor Interface IC is an integrated circuit that connects tactile (touch/force/pressure) sensors to digital processing systems. It is responsible for converting weak analog signals generated by tactile sensing elements (such as piezoresistive, capacitive, or force-sensitive arrays) into amplified, filtered, and digitized signals. The IC typically performs functions such as signal conditioning, multiplexing, analog-to-digital conversion (ADC), noise reduction, and sometimes basic sensor calibration or preprocessing, enabling accurate and real-time touch perception in robotics, consumer electronics, and industrial systems. In 2025, global tactile and force sensor interface IC production reached approximately 640.14 M units, with an average global market price of around US\$ 4.8 per unit. Annual production capacity is 780 M units. Gross Profit Margin: 58%. The tactile and force sensor interface IC industry chain is structured around three core layers. The upstream consists of semiconductor fabrication, analog circuit design IP, and precision components such as ADCs, low-noise amplifiers, and MEMS sensing elements. The midstream is dominated by IC design companies that integrate signal conditioning, multiplexing, and digital conversion functions into compact AFE or interface chips. The downstream is composed of robotics, industrial automation, automotive electronics, and emerging humanoid robot systems, where high-density force sensing and real-time feedback control are increasingly critical. Demand growth is primarily driven by robotics and intelligent automation, where tactile feedback is becoming a core requirement for precision manipulation and human-machine interaction. As system architectures shift toward higher sensor density and edge intelligence, the value of interface ICs within the overall

sensing stack continues to increase, moving from a supporting role to a critical enabling component.

This report studies the global Tactile Sensor Interface IC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Tactile Sensor Interface IC and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Tactile Sensor Interface IC that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Tactile Sensor Interface IC total production and demand, 2021-2032, (Million Units)

Global Tactile Sensor Interface IC total production value, 2021-2032, (USD Million)

Global Tactile Sensor Interface IC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Tactile Sensor Interface IC consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Tactile Sensor Interface IC domestic production, consumption, key domestic manufacturers and share

Global Tactile Sensor Interface IC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Tactile Sensor Interface IC production by Channel Count / Array Size, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Tactile Sensor Interface IC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Tactile Sensor Interface IC market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Analog Devices, Texas Instruments, Stmicroelectronics, Bosch Sensortec, Infineon Technologies, Nxp Semiconductors, Onsemi, Renesas Electronics, Microchip Technology, Ams Osram, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Tactile Sensor Interface IC market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Channel Count / Array Size, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Tactile Sensor Interface IC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Tactile Sensor Interface IC Market, Segmentation by Channel Count / Array Size:

Single-channel ICs

Multi-channel ICs (8?64 Channels)

Large-scale Array ICs (64?1024+ Channels)

Global Tactile Sensor Interface IC Market, Segmentation by Level of Integration:

Discrete Interface ICs (Low Integration)

Integrated Readout + ADC ICs (Mid Integration)

System-on-Chip (SoC) Tactile ICs (High Integration)

Global Tactile Sensor Interface IC Market, Segmentation by Precision:

Low-resolution ICs : 8?10 bit ADC

Mid-resolution ICs: 12?14 bit ADC

High-resolution ICs: 16?24 bit ADC

Others

Global Tactile Sensor Interface IC Market, Segmentation by Application:

Consumer Electronics

Industrial Automation & Robotics

Medical & Rehabilitation

Automotive Electronics

Aerospace and Defense

Research

Others

Companies Profiled:

Analog Devices

Texas Instruments

Stmicroelectronics

Bosch Sensortec

Infineon Technologies

Nxp Semiconductors

Onsemi

Renesas Electronics

Microchip Technology

Ams Osram

Novosense Microelectronics

3Peak Incorporated

Goodix Technology

SG Micro Corp.

Chipsea Technologies (Shenzhen) Corp.

Southchip Semiconductor Technology (Shanghai) Co., Ltd.

Silergy Corp.

Huada Semiconductor Co., Ltd.

Hefei Chipmore Semiconductor Co., Ltd.

O-Nano Electronics Technology Co., Ltd.

Key Questions Answered:

1. How big is the global Tactile Sensor Interface IC market?
2. What is the demand of the global Tactile Sensor Interface IC market?
3. What is the year over year growth of the global Tactile Sensor Interface IC market?
4. What is the production and production value of the global Tactile Sensor Interface IC market?
5. Who are the key producers in the global Tactile Sensor Interface IC market?
6. What are the growth factors driving the market demand?

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