

# Global 16-channel Touch Chip 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 16-channel Touch Chip market size was valued at US\$ 574 million in 2025 and is forecast to a readjusted size of US\$ 932 million by 2032 with a CAGR of 7.0% during review period.

In 2025, global 16-channel Touch Chip production reached approximately 446.6 M units, with an average global market price of around 1,250 US\$/K Units.

A 16-Channel Touch Chip is a specialized integrated circuit that integrates 16 independent touch-sensing channels to detect, process, and convert human touch signals (such as capacitive, resistive, or infrared) into digital control signals; it typically supports matrix scanning or independent channel detection, with built-in signal amplification, noise reduction, and communication interface modules (e.g., I2C, SPI), enabling 16-point touch recognition, multi-functional control, and human-machine interaction in electronic devices, and is widely used in scenarios requiring medium-scale touch input interfaces.

The average single-line production capacity of 16-channel Touch Chip is 40 M units, the average gross profit margin was 43.7%.

The upstream of the 16-Channel Touch Chip industry chain mainly includes raw material suppliers (silicon wafers, photoresists, packaging materials, etc.), IP core providers (touch algorithm, interface protocol, etc.), and equipment manufacturers (lithography, etching, testing equipment); the midstream consists of chip design enterprises (developing 16-channel touch chips based on market demand), wafer foundries (undertaking chip manufacturing), and packaging and testing enterprises

(providing packaging, testing, and quality control services); the downstream covers terminal product manufacturers in consumer electronics, smart home, industrial control, automotive electronics, and other fields, as well as system integrators and distributors, which apply or promote 16-channel touch chips to realize human-machine interaction functions in terminal products.

The cost structure of 16-Channel Touch Chip mainly includes R&D costs (accounting for about 15%-20%, including algorithm development, chip design, and prototype testing), manufacturing costs (accounting for about 40%-45%, mainly including wafer procurement, foundry processing, and packaging and testing fees), raw material costs (accounting for about 10%-15%, such as silicon wafers, packaging materials, and testing reagents), operation and management costs (accounting for about 10%-15%, including personnel salaries, office expenses, and market promotion fees), and other costs (accounting for about 5%-10%, such as intellectual property authorization fees and logistics costs). Among them, manufacturing costs and R&D costs are the two largest components affecting the overall cost of the chip.

Driven by the rapid development of smart home, industrial automation, automotive electronics, and other industries, the demand for 16-channel touch chips is growing rapidly, especially the demand for high-sensitivity, low-power, and anti-interference 16-channel touch chips in smart home control panels, industrial control terminals, and automotive central control systems; the popularization of intelligent terminals and the upgrading of human-machine interaction experience have further expanded the market space of 16-channel touch chips, and the business opportunities mainly lie in the R&D and production of high-performance and low-cost products, the customized development for special application scenarios (such as high-temperature and high-humidity environments), and the expansion of emerging application fields (such as smart medical treatment and smart retail), which can meet the differentiated needs of different customers and enhance market competitiveness.

This report is a detailed and comprehensive analysis for global 16-channel Touch Chip market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Sensing Technology 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 16-channel Touch Chip market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/K Units), 2021-2032

Global 16-channel Touch Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/K Units), 2021-2032

Global 16-channel Touch Chip market size and forecasts, by Sensing Technology and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/K Units), 2021-2032

Global 16-channel Touch Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/K Units), 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 16-channel Touch Chip

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 16-channel Touch Chip 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 WINCOM, Renesas, TonTek, Nuvoton, GreenChip, Microchip, AD Semiconductor, I-CORE Electronics, Infineon, Holtek, etc.

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

### **Market Segmentation**

16-channel Touch Chip market is split by Sensing Technology and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Sensing Technology, 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 Sensing Technology

Capacitive Touch

Resistive Touch

Infrared Touch

#### Market segment by Integration Level

Standalone Touch IC

MCU-Integrated Touch

SoC-Integrated Touch

#### Market segment by Communication Interface

I2C Interface

SPI Interface

UART Interface

#### Market segment by Application

Consumer Electronics

Smart Home

Industrial Control

Others

#### Major players covered

WINCOM

Renesas

TonTek

Nuvoton

GreenChip

Microchip

AD Semiconductor

I-CORE Electronics

Infineon

Holtek

#### 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 16-channel Touch Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 16-channel Touch Chip, with price, sales quantity, revenue, and global market share of 16-channel Touch Chip from 2021 to 2026.

Chapter 3, the 16-channel Touch Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 16-channel Touch Chip 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 Sensing Technology and by Application, with sales market share and growth rate by Sensing Technology, 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 16-channel Touch Chip market forecast, by regions, by Sensing Technology, 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 16-channel Touch Chip.

Chapter 14 and 15, to describe 16-channel Touch Chip sales channel, distributors, customers, research findings and conclusion.

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