

# **Microelectromechanical Systems (MEMS) Market (By Product Type: Sensors, Actuators; By Industry Vertical: Consumer Electronics, Automotive, Industrial, Aerospace & Defence, Healthcare, Telecommunication; By Geography: North America, Europe, Asia-Pacific, RoW) Global Scenario, Market Size, Outlook, Trend and Forecast, 2015-2024**

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## **Abstracts**

Global Microelectromechanical Systems (MEMS) Market is forecasted to reach \$35 billion by 2024; growing at a CAGR of 11.4% between 2016 and 2024. MEMS is the technology of microscopic device that has both electrical and mechanical components. The dimensions can range from 20 micrometers to a millimeter. MEMS technology is able to develop new products such as less expensive, multi-axis inertial motion sensors. These sensors are useful for smartphone based navigation and Digital Micromirror Devices (DMD), which are used for efficient, high speed and reliable spatial light modulation in industry verticals such as telecom and medical, among others. MEMS are also used in micro-mirror arrays for high definition project systems, sensor-driven heating and cooling systems, and micronozzles to control the flow of ink in inkjet printers.

Growth in automotive vertical and consumer's preference towards improved features in their vehicle are the major drivers of the MEMS market. Moreover, technological advancements which have resulted into the miniaturization devices and increasing adoption of wearable devices are also expected to drive the market. However, less technical awareness among end users and lack of standardization & accuracy may hinder the growth of the market.

The MEMS market has been bifurcated into product type, industry vertical and geography. Product type is further segmented into sensors (accelerometer, pressure sensor, gyroscope, microphone, inertial combos, magnetometer, environment and optical sensor), actuators (inkjet systems, optical MEMS such as projection system, autofocus, micromirror and micro displays, oscillators & resonators, micro fluidic & bio-chip, RF MEMS and others). Industry vertical can further be segmented into consumer electronics, automotive, industrial, aerospace and defense, healthcare and telecommunication.

Geographically, the MEMS market is categorized into North America, Europe, Asia-Pacific and Rest of the World (RoW). The U.S., Mexico and Canada are covered under North America wherein Europe covers France, Germany, United Kingdom, Spain and others. Asia-Pacific covers China, India, Japan, South Korea and others. RoW covers South America, Middle East and Africa.

The key market players in MEMS market include STMicroelectronics (Switzerland), Robert Bosch GmbH (Germany), Hewlett-Packard Company (U.S.), Texas Instruments Inc. (U.S.), Knowles Electronics (U.S.), Denso Corporation (Japan), Canon Inc. (Japan), Avago Technologies (Singapore), InvenSense, Inc. (U.S.), Panasonic Corporation (Japan), Analog Devices, Inc. (U.S.) and Sensata Technologies, among others.

The key takeaways from the report

The report will provide detailed analysis of Microelectromechanical Systems market with respect to major segments such as industry vertical and product type

The report will include the qualitative and quantitative analysis with market estimation over 2015-2024 and compound annual growth rate (CAGR) between 2016 and 2024

Comprehensive analysis of market dynamics including factors and opportunities is included in the report

An exhaustive regional analysis of Microelectromechanical Systems market will be provided in the report

Profile of key players of the Microelectromechanical Systems market, which include key financials, product & services, new developments and business

strategies

## Scope of Microelectromechanical Systems (MEMS) Market

### Product Type Segments

#### Sensors

Accelerometer

Gyroscope

Pressure sensor

Inertial combos

Microphone

Magnetometer

Others (Environment and Optical Sensor)

#### Actuators

#### Inkjet systems

Optical MEMS (Projection System, Autofocus, Micromirror, and Micro Displays)

Oscillators and Resonators

micro fluidic and bio-chip

RF MEMS

Others (PIR and Thermopiles, Microbolometers, and Digital compass)

### Industry Vertical Segments

Consumer Electronic

Automotive

Industrial

Aerospace and Defence

Healthcare

Telecommunication Geographical Segments

North America

US

Canada

Mexico

Europe

Germany

France

United Kingdom

Spain

Others

Asia-Pacific

China

India

Japan

South Korea

Others

RoW

South America

Middle East

Africa

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