

Sensor Market: Trends, Opportunities and Competitive Analysis to 2028

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Abstracts

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Sensor Market Introduction

The sensor market has witnessed significant growth in recent years, fueled by advancements in technology and the increasing demand for smart devices and systems. Sensors play a crucial role in collecting and interpreting data, enabling automation, improving safety, and enhancing overall efficiency across various industries. This report provides a comprehensive analysis of the sensor market, including market share insights and an overview of current trends.

Sensor Market Overview

According to Lucintel, the future of the global sensor market looks attractive with opportunities in the industrial, healthcare, electronics, automotive, and aerospace/defense industries. The global sensor market is expected to reach an estimated \$308.5 billion by 2028 with a CAGR of 11.2% from 2023 to 2028. The major drivers for this market are the growth of internet of things (IoT), increasing need of automation in various industries, and miniaturization of sensors.

The sensor market has experienced robust growth, driven by several factors such as the proliferation of Internet of Things (IoT) devices, rising adoption of automation technologies, and the growing need for real-time data monitoring and analysis. The market encompasses a wide range of sensors, including temperature, pressure, motion, image, proximity, and chemical sensors, among others.

A total of 88 figures / charts and 79 tables are provided in this 186-page report to help in your business decisions. A sample figure with insights is shown below.

Emerging Trends in the Sensor Market

Factors such as increasing urbanization, the rising demand for smart homes and buildings, advancements in automotive technology, and the growth of industrial automation are driving the sensor market's expansion. Sensors are critical components in autonomous vehicles, wearable devices, healthcare monitoring systems, and smart cities, among other applications. The demand for sensors is expected to continue growing as these technologies become more prevalent.

Emerging trends, which have a direct impact on the dynamics of the industry, include development of new product technologies, increasing usage of sensors in ADAS application, and advances in gas sensor materials and manufacturing.

Sensor Market by Segment

The sensor market report provides a detailed analysis of market trends, growth drivers, challenges, and opportunities. It covers various segments of the sensor market, including types, applications, and end-user industries. The report offers insights into the competitive landscape, profiling key players and their strategies to maintain or improve their market positions.

The sensor market is witnessing significant growth, driven by the increasing demand for smart devices, automation, and real-time data monitoring. The sensor market report provides valuable insights into market trends, competitive dynamics, and growth opportunities, enabling stakeholders to make informed decisions and capitalize on the expanding sensor market. The study includes trends and forecast for the global sensor market by product type, end use industry, and region as follows:

By Product Type [\$B shipment analysis from 2017 to 2028]:

Chemical Sensor

Temperature Sensor

Pressure Sensor

Image Sensor

Position Sensor

Bio Sensor

Flow Sensor

Level Sensor

Motion Sensor

Radar Sensor

Other Sensor

By End Use Industry [\$B shipment analysis from 2017 to 2028]:

Industrial

Automotive

Healthcare

Electronics

Aerospace and Defense

Others

By Region [\$B shipment analysis for 2016 – 2027]:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Asia Pacific

Japan

China

South Korea

India

The Rest of the World

Sensor Market Share

The market share dynamics are constantly evolving, with new entrants and smaller players gaining traction in specific niche markets. Startups and innovative companies are disrupting traditional markets by introducing novel sensor technologies with enhanced functionalities and lower costs.

The sensor market is also influenced by regional dynamics, with different regions exhibiting varying levels of sensor adoption. North America has historically been a leading market for sensors, driven by the presence of major technology companies and a strong focus on innovation. Europe and Asia Pacific are also significant contributors to the sensor market, with a growing emphasis on automation, smart manufacturing, and IoT applications.

Sensor Manufacturers

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their new product developments, partnerships, mergers & acquisition, and leverage integration opportunities across the value chain. With these strategies sensor companies cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the sensor companies profiled in this report include.

Sony Corporation

STMicroelectronics

Analog Devices, Inc.

ABB Ltd

NXP Semiconductors

Sensata Technologies

Texas Instruments

Robert Bosch GmbH

Infineon Technologies AG.

These companies have established themselves as key players in the sensor industry, offering a diverse range of sensor products catering to various applications and industries.

Sensor Market Insight

Lucintel forecast that radar sensor is expected to witness the highest growth in the forecast period supported by increasing demand for sensors in advanced driving assistance system (ADAS) applications.

Industrial will remain the largest end use industry due to increased demand for

automation and control in various industries, including oil and gas, chemical, and food & beverages. Healthcare industry is expected to witness the highest growth over the forecast period due to the increasing demand for Electrocardiography (ECG) sensors in cardiac treatment.

Asia Pacific is expected to remain the largest region during the forecast period due to growth in smart city projects, wearable devices, and increasing demand for ADAS in automotive industry.

Features of Sensor Market

Market Size Estimates: Global sensor market size estimation in terms of value (\$B) shipment.

Trend and Forecast Analysis: Market trends (2017-2022) and forecast (2023-2028) by various segments and regions.

Segmentation Analysis: Global sensor market size by various segments, such as product type, end use industry, and regions in terms of value.

Regional Analysis: Global sensor market breakdown by North America, Europe, Asia Pacific, and Rest of the World.

Growth Opportunities: Analysis on growth opportunities in different product type, end use industry, and regions for the global sensor market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape for the global sensor market.

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

Frequently Asked Questions (FAQ)

Q1. How big is the sensor market?

Answer: The global sensor market is expected to reach an estimated \$308.5 billion by

2028.

Q2. What is the growth forecast for sensor market?

Answer: The sensor market is expected to grow at a CAGR of 11.2% from 2023 to 2028.

Q3. What are the major drivers influencing the growth of the sensor market?

Answer: The major drivers for this market are the growth of internet of things (IoT), increasing need of automation in various industries, and miniaturization of sensors.

Q4. What are the major applications or application for sensor market?

Answer: Automotive, electronics, and healthcare among others are the major application for sensor market.

Q5. What are the emerging trends in sensor market?

Answer: Emerging trends, which have a direct impact on the dynamics of the industry, include development of new product technologies, increasing usage of sensors in ADAS application, and advances in gas sensor materials and manufacturing.

Q6. Which are the key players in sensor market?

Answer: Some of the key players in sensor market are as follows:

Sony Corporation

STMicroelectronics

Analog Devices, Inc.

ABB Ltd

NXP Semiconductors

Sensata Technologies

Texas Instruments

Robert Bosch GmbH

Infineon Technologies AG.

Q7. Which sensor product segment will be the largest in future?

Answer: Lucintel forecast that radar sensor is expected to witness the highest growth in the forecast period supported by increasing demand for sensors in advanced driving assistance system (ADAS) applications.

Q8. In sensor market, which region is expected to be the largest in next 5 years?

Answer: Asia Pacific is expected to remain the largest region and witness the highest growth over next 5 years

Q9. Do we receive customization in this report?

Answer: Yes, Lucintel provides 10% Customization Without any Additional Cost.

This report answers following 11 key questions

Q.1. What are some of the most promising, high-growth opportunities for the global sensor market by product type (chemical sensor, temperature sensor, pressure sensor, image sensor, position sensor, bio sensor, flow sensor, level sensor, motion sensor, radar sensor and others), by end use industry (Industrial, healthcare, electronics, automotive, aerospace & defense, and others), and by region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2. Which segments will grow at a faster pace and why?

Q.3. Which regions will grow at a faster pace and why?

Q.4. What are the key factors affecting market dynamics? What are the drivers and challenges of the market?

Q.5. What are the business risks and threats to the market?

Q.6. What are the emerging trends in this market and the reasons behind them?

Q.7. What are some changing demands of customers in the market?

Q.8. What are the new developments in the market? Which companies are leading these developments?

Q.9. Who are the major players in this market? What strategic initiatives are being implemented by key players for business growth?

Q.10. What are some of the competitive products and processes in this area and how big of a threat do they pose for loss of market share via product substitution?

Q.11. What M&A activity did take place in the last five years in the global sensor market?

For any questions related to sensor market or related to TPMS sensor, O2 sensor, mass air flow sensor, oxygen sensor, mass flow light sensor, knock sensor, tire pressure sensor, motion sensor, proximity sensor, sensor companies, sensor market size, sensor market share, sensor analysis, write Lucintel analyst at email: helpdesk@lucintel.com we will be glad to get back to you soon.

Contents

1. EXECUTIVE SUMMARY

2. MARKET BACKGROUND AND CLASSIFICATIONS

2.1: Introduction, Background, and Classifications

2.2: Supply Chain

2.3: Industry Drivers and Challenges

3. MARKET TRENDS AND FORECAST ANALYSIS FROM 2017 TO 2028

3.1: Macroeconomic Trends and Forecast

3.2: Global Sensor Market Trends and Forecast

3.3: Global Sensor Market by Product Type

3.3.1: Chemical Sensors

3.3.2: Temperature Sensors

3.3.3: Pressure Sensors

3.3.4: Image Sensors

3.3.6: Position Sensors

3.3.6: Bio Sensors

3.3.7: Flow Sensors

3.3.8: Level Sensors

3.3.9: Motion Sensors

3.3.10: Radar Sensors

3.3.11: Other Sensors

3.4: Global Sensor Market by Application

3.4.1: Industrial

3.4.2: Healthcare

3.4.3: Electronics

3.4.5: Automotive

3.4.5: Aerospace and Defense

3.4.6: Others

4. MARKET TRENDS AND FORECAST ANALYSIS BY REGION FROM 2017 TO 2028

4.1: Global Sensor Market by Region

4.2: North American Sensor Market

- 4.2.1: North American Market by Product Type
- 4.2.2: North American Market by Application
- 4.2.3: The US Sensor Market
- 4.2.4: The Canadian Sensor Market
- 4.2.5: The Mexican Sensor Market
- 4.3: European Sensor Market
 - 4.3.1: European Market by Product Type
 - 4.3.2: European Market by Application
 - 4.3.3: German Sensor Market
 - 4.3.4: UK Sensor Market
 - 4.3.5: French Sensor Market
- 4.4: APAC Sensor Market
 - 4.4.1: APAC Market by Product Type
 - 4.4.2: APAC Market by Application
 - 4.4.3: Chinese Sensor Market
 - 4.4.4: Japanese Sensor Market
 - 4.4.5: South Korean Sensor Market
 - 4.4.6: Indian Sensor Market
- 4.5: ROW Sensor Market
 - 4.5.1: ROW Market by Product Type
 - 4.5.2: ROW Market by Application

5. COMPETITOR ANALYSIS

- 5.1: Product Portfolio Analysis
- 5.2: Geographical Reach
- 5.3: Porter's Five Forces Analysis

6. GROWTH OPPORTUNITIES AND STRATEGIC ANALYSIS

- 6.1: Growth Opportunity Analysis
 - 6.1.1: Growth Opportunities for the Global Sensor Market by Application
 - 6.1.2: Growth Opportunities for the Global Sensor Market by Product Type
 - 6.1.3: Growth Opportunities for the Global Sensor Market by Region
- 6.2: Emerging Trends in the Global Sensor Market
- 6.3: Strategic Analysis
 - 6.3.1: New Product Development
 - 6.3.2: Geographic Expansion
 - 6.3.3: Mergers, Acquisitions, Partnership, and Joint Ventures in the Global

Sensor Market

7. COMPANY PROFILES OF LEADING PLAYERS

7.1: Sony Corporation

7.2: STMicroelectronics

7.3: Infineon Technologies AG

7.4: Analog Devices, Inc

7.5: ABB Ltd.

7.6: NXP Semiconductors

7.7: Robert Bosch GmbH

7.8: Sensata Technologies Inc.

7.9: Texas Instruments Incorporated

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