

Sensor Market By Type (Radar Sensor, Optical Sensor, Biosensor, Touch Sensor, Image Sensor, Pressure Sensor, Temperature Sensor, Proximity & Displacement Sensor, Level Sensor, Motion & Position Sensor, Humidity Sensor, Accelerometer & Speed Sensor, and Others), Technology (CMOS, MEMS, NEMS, and Others), and End User (Electronics, IT & Telecom, Industrial, Automotive, Aerospace & Defense, Healthcare, and Others): Global Opportunity Analysis and Industry Forecast, 2021–2028

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Abstracts

The global sensor market size was valued at \$166.69 billion in 2019, and is projected to reach \$345.77 billion by 2028, to register a CAGR of 8.9% from 2021 to 2028. Sensor is a device that detects physical input such as light, heat, motion, moisture, pressure, or any other entity, and responds by producing an output on a display or transmits the information in electronic form for further processing.

Sensors are widely used in day-to-day life such as touch-sensitive elevator buttons and lamps which brighten or dim by touching the base. In addition, with developments in micromachinery & microcontroller platforms, uses of sensors have expanded beyond traditional fields of pressure measurement and temperature, for instance into MARG sensors. There are also a wide range of other sensors, measuring physical & chemical characters of materials such as vibrational sensor for fluid viscosity measurement, optical sensor for refractive index measurement, and electro-chemical sensors for monitoring pH of liquids.

Growth in trend of Internet of Things (IoT), rise in demand for sensors in development of smart cities, advancements in sensors, their increased usage in smartphones and other electronics devices, development in automation sector, and emerging applications of radar in remote sensing are expected to fuel growth of the sensor market. However, incorporating sensors in devices incurs extra value and reduces life of device. This factor is expected to hinder the market growth. Moreover, rise in adoption of wearable devices, innovative applications in biomedical sector, and surge in the automotive sector offers huge market opportunities in the next few years.

The global sensor market trends are analyzed across various segments including type, technology, end user, and region. By type, the market is categorized into radar sensor, optical sensor, biosensor, touch sensor, image sensor, pressure sensor, temperature sensor, proximity & displacement sensor, level sensor, motion & position sensor, humidity sensor, accelerometer & speed sensor, and other sensors. By technology, it is divided into CMOS, MEMS, NEMS, and others. On the basis of end user, it is categorized into electronics, IT & telecom, industrial, automotive, aerospace & defense, healthcare, and others.

Region wise, the sensor market trends are analyzed across North America (the U.S., Canada, and Mexico), Europe (the UK, Germany, France, Italy, and Rest of Europe), Asia-Pacific (China, Japan, India, South Korea, and Rest of Asia-Pacific), and LAMEA (Latin America, the Middle East, and Africa). The key players operating in the market include as Atmel Corporation, Honeywell International Inc., Infineon Technologies AG, Johnson Controls International PLC., NXP semiconductors N.V., Qualcomm Technologies Inc., Robert Bosch GmbH, Sony Corporation, STMicroelectronics, and Texas instruments Inc.

Sensor Market Key Segments

By Type

Radar Sensor

Optical Sensor

Biosensor

Touch Sensor

Image Sensor

Pressure Sensor

Temperature Sensor

Proximity & Displacement Sensor

Level Sensor

Motion & Position Sensor

Humidity Sensor

Accelerometer & Speed Sensor

Others

By Technology

CMOS

MEMS

NEMS

Others

By End User

Electronics

IT & Telecom

Industrial

Automotive

Aerospace & Defense

Healthcare

Others

By Region

North America

U.S.

Canada

Mexico

Europe

U.K.

Germany

France

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Market Players

Atmel Corporation

Honeywell International Inc.

Infineon Technologies AG

Johnson Controls International PLC.

NXP semiconductors N.V.

Qualcomm Technologies, Inc.

Robert Bosch GmbH

Sony Corporation

STMicroelectronics

Texas instruments Inc.

TE Connectivity

Contents

CHAPTER 1:INTRODUCTION

- 1.1.Report description
- 1.2.Key benefits for stakeholders
- 1.3.Key market segments
- 1.4.Research methodology
 - 1.4.1.Primary research
 - 1.4.2.Secondary research
 - 1.4.3.Analyst tools and models

CHAPTER 2:EXECUTIVE SUMMARY

- 2.1.CXO perspective

CHAPTER 3:MARKET OVERVIEW

- 3.1.Market definition and scope
- 3.2.Key findings
 - 3.2.1.Top impacting factors
 - 3.2.2.Top investment pockets
 - 3.2.3.Top winning strategies
- 3.3.Porter's five forces analysis
- 3.4.Market dynamics
 - 3.4.1.Drivers
 - 3.4.1.1.Growth in trend of Internet of Things (IoT)
 - 3.4.1.2.Growth in demand for sensors in development of smart cities
 - 3.4.1.3.Advancement in sensors and its increasing usage in smartphones, and other electronics devices
 - 3.4.1.4.Advancement in automation sector
 - 3.4.1.5.Emerging applications of radar in remote sensing
 - 3.4.2.Restrictant
 - 3.4.2.1.Incorporating the sensor in devices incurs extra value and reduces life of device
 - 3.4.3.Opportunities
 - 3.4.3.1.Rise in adoption of wearable devices and innovative application in biomedical sector
 - 3.4.3.2.Surge in the automotive sector

3.5.COVID-19 Impact Analysis

CHAPTER 4:SENSOR MARKET, BY TYPE

4.1.Overview

4.2.Radar Sensor

4.2.1.Key market trends, growth factors and opportunities

4.2.2.Market size and forecast, by region

4.2.3.Market analysis by country

4.3.Optical Sensor

4.3.1.Key market trends, growth factors, and opportunities

4.3.2.Market size and forecast, by region

4.3.3.Market analysis by country

4.4.Biosensors

4.4.1.Key market trends, growth factors, and opportunities

4.4.2.Market size and forecast, by region

4.4.3.Market analysis by country

4.5.Touch Sensor

4.5.1.Key market trends, growth factors, and opportunities

4.5.2.Market size and forecast, by region

4.5.3.Market analysis by country

4.6.Image Sensor

4.6.1.Key market trends, growth factors, and opportunities

4.6.2.Market size and forecast, by region

4.6.3.Market analysis by country

4.7.Pressure Sensor

4.7.1.Key market trends, growth factors, and opportunities

4.7.2.Market size and forecast, by region

4.7.3.Market analysis by country

4.8.Temperature Sensor

4.8.1.Key market trends, growth factors, and opportunities

4.8.2.Market size and forecast, by region

4.8.3.Market analysis by country

4.9.Proximity & Displacement Sensor

4.9.1.Key market trends, growth factors, and opportunities

4.9.2.Market size and forecast, by region

4.9.3.Market analysis by country

4.10.Level Sensor

4.10.1.Key market trends, growth factors, and opportunities

- 4.10.2. Market size and forecast, by region
- 4.10.3. Market analysis by country
- 4.11. Motion & Position Sensor
 - 4.11.1. Key market trends, growth factors, and opportunities
 - 4.11.2. Market size and forecast, by region
 - 4.11.3. Market analysis by country
- 4.12. Humidity Sensor
 - 4.12.1. Key market trends, growth factors, and opportunities
 - 4.12.2. Market size and forecast, by region
 - 4.12.3. Market analysis by country
- 4.13. Accelerometer & Speed Sensor
 - 4.13.1. Key market trends, growth factors, and opportunities
 - 4.13.2. Market size and forecast, by region
 - 4.13.3. Market analysis by country
- 4.14. Others
 - 4.14.1. Key market trends, growth factors, and opportunities
 - 4.14.2. Market size and forecast, by region
 - 4.14.3. Market analysis by country

CHAPTER 5: SENSOR MARKET, BY TECHNOLOGY

- 5.1. Overview
- 5.2. CMOS
 - 5.2.1. Key market trends, growth factors and opportunities
 - 5.2.2. Market size and forecast, by region
 - 5.2.3. Market analysis by country
- 5.3. MEMS
 - 5.3.1. Key market trends, growth factors, and opportunities
 - 5.3.2. Market size and forecast, by region
 - 5.3.3. Market analysis by country
- 5.4. NEMS
 - 5.4.1. Key market trends, growth factors, and opportunities
 - 5.4.2. Market size and forecast, by region
 - 5.4.3. Market analysis by country
- 5.5. Others
 - 5.5.1. Key market trends, growth factors, and opportunities
 - 5.5.2. Market size and forecast, by region
 - 5.5.3. Market analysis by country

CHAPTER 6:SENSOR MARKET, BY END USER

6.1.Overview

6.2.Electronics

6.2.1.Key market trends, growth factors and opportunities

6.2.2.Market size and forecast, by region

6.2.3.Market analysis by country

6.3.IT & Telecom

6.3.1.Key market trends, growth factors, and opportunities

6.3.2.Market size and forecast, by region

6.3.3.Market analysis by country

6.4.Industrial

6.4.1.Key market trends, growth factors, and opportunities

6.4.2.Market size and forecast, by region

6.4.3.Market analysis by country

6.5.Automotive

6.5.1.Key market trends, growth factors, and opportunities

6.5.2.Market size and forecast, by region

6.5.3.Market analysis by country

6.6.Aerospace & Defense

6.6.1.Key market trends, growth factors, and opportunities

6.6.2.Market size and forecast, by region

6.6.3.Market analysis by country

6.7.Healthcare

6.7.1.Key market trends, growth factors, and opportunities

6.7.2.Market size and forecast, by region

6.7.3.Market analysis by country

6.8.Others

6.8.1.Key market trends, growth factors, and opportunities

6.8.2.Market size and forecast, by region

6.8.3.Market analysis by country

CHAPTER 7:SENSOR MARKET, BY REGION

7.1.Overview

7.2.North America

7.2.1.Key market trends, growth factors, and opportunities

7.2.2.Market size and forecast, by type

7.2.3.Market size and forecast, by technology

7.2.4. Market size and forecast, by end user

7.2.5. Market analysis by country

7.2.5.1. U.S.

7.2.5.1.1. Market size and forecast, by type

7.2.5.1.2. Market size and forecast, by Technology

7.2.5.1.3. Market size and forecast, by end user

7.2.5.2. Canada

7.2.5.2.1. Market size and forecast, by type

7.2.5.2.2. Market size and forecast, by technology

7.2.5.2.3. Market size and forecast, by end user

7.2.5.3. Mexico

7.2.5.3.1. Market size and forecast, by type

7.2.5.3.2. Market size and forecast, by technology

7.2.5.3.3. Market size and forecast, by end user

7.3. Europe

7.3.1. Key market trends, growth factors, and opportunities

7.3.2. Market size and forecast, by type

7.3.3. Market size and forecast, by technology

7.3.4. Market size and forecast, by end user

7.3.5. Market analysis by country

7.3.5.1. U.K.

7.3.5.1.1. Market size and forecast, by type

7.3.5.1.2. Market size and forecast, by technology

7.3.5.1.3. Market size and forecast, by end user

7.3.5.2. Germany

7.3.5.2.1. Market size and forecast, by type

7.3.5.2.2. Market size and forecast, by technology

7.3.5.2.3. Market size and forecast, by end user

7.3.5.3. France

7.3.5.3.1. Market size and forecast, by type

7.3.5.3.2. Market size and forecast, by technology

7.3.5.3.3. Market size and forecast, by end user

7.3.5.4. Italy

7.3.5.4.1. Market size and forecast, by type

7.3.5.4.2. Market size and forecast, by technology

7.3.5.4.3. Market size and forecast, by end user

7.3.5.5. Rest of Europe

7.3.5.5.1. Market size and forecast, by type

7.3.5.5.2. Market size and forecast, by technology

7.3.5.5.3. Market size and forecast, by end user

7.4. Asia-Pacific

7.4.1. Key market trends, growth factors, and opportunities

7.4.2. Market size and forecast, by type

7.4.3. Market size and forecast, by technology

7.4.4. Market size and forecast, by end user

7.4.5. Market analysis by country

7.4.5.1. China

7.4.5.1.1. Market size and forecast, by type

7.4.5.1.2. Market size and forecast, by technology

7.4.5.1.3. Market size and forecast, by end user

7.4.5.2. Japan

7.4.5.2.1. Market size and forecast, by type

7.4.5.2.2. Market size and forecast, by technology

7.4.5.2.3. Market size and forecast, by end user

7.4.5.3. India

7.4.5.3.1. Market size and forecast, by type

7.4.5.3.2. Market size and forecast, by Technology

7.4.5.3.3. Market size and forecast, by end user

7.4.5.4. South Korea

7.4.5.4.1. Market size and forecast, by type

7.4.5.4.2. Market size and forecast, by technology

7.4.5.4.3. Market size and forecast, by end user

7.4.5.5. Rest of Asia-Pacific

7.4.5.5.1. Market size and forecast, by type

7.4.5.5.2. Market size and forecast, by Technology

7.4.5.5.3. Market size and forecast, by end user

7.5. LAMEA

7.5.1. Key market trends, growth factors, and opportunities

7.5.2. Market size and forecast, by type

7.5.3. Market size and forecast, by technology

7.5.4. Market size and forecast, by end user

7.5.5. Market analysis by country

7.5.5.1. Latin America

7.5.5.1.1. Market size and forecast, by type

7.5.5.1.2. Market size and forecast, by technology

7.5.5.1.3. Market size and forecast, by end user

7.5.5.2. Middle East

7.5.5.2.1. Market size and forecast, by type

- 7.5.5.2.2. Market size and forecast, by technology
- 7.5.5.2.3. Market size and forecast, by end user
- 7.5.5.3. Africa
 - 7.5.5.3.1. Market size and forecast, by type
 - 7.5.5.3.2. Market size and forecast, by technology
 - 7.5.5.3.3. Market size and forecast, by end user

CHAPTER 8: COMPANY PROFILES

- 8.1. Hewlett Packard Enterprise (HPE)
 - 8.1.1. Company overview
 - 8.1.2. Company snapshot
 - 8.1.3. Operating business segments
 - 8.1.4. Product portfolio
 - 8.1.5. R&D Expenditure
 - 8.1.6. Business performance
 - 8.1.7. Key strategic moves and developments
- 8.2. Infineon Technologies AG
 - 8.2.1. Company overview
 - 8.2.2. Company snapshot
 - 8.2.3. Operating business segments
 - 8.2.4. Product portfolio
 - 8.2.5. R&D Expenditure
 - 8.2.6. Business performance
 - 8.2.7. Key strategic moves and developments
- 8.3. Microchip Technology Inc.
 - 8.3.1. Company overview
 - 8.3.2. Company snapshot
 - 8.3.3. Operating business segments
 - 8.3.4. Product portfolio
 - 8.3.5. R&D Expenditure
 - 8.3.6. Business performance
 - 8.3.7. Key strategic moves and developments
- 8.4. NXP Semiconductor
 - 8.4.1. Company overview
 - 8.4.2. Company snapshot
 - 8.4.3. Operating business segments
 - 8.4.4. Product portfolio
 - 8.4.5. R&D Expenditure

- 8.4.6.Business performance
- 8.4.7.Key strategic moves and developments
- 8.5.Panasonic Corporation
 - 8.5.1.Company overview
 - 8.5.2.Company snapshot
 - 8.5.3.Operating business segments
 - 8.5.4.Product portfolio
 - 8.5.5.R&D Expenditure
 - 8.5.6.Business performance
 - 8.5.7.Key strategic moves and developments
- 8.6.Qualcomm Technologies, Inc.
 - 8.6.1.Company overview
 - 8.6.2.Company snapshot
 - 8.6.3.Operating business segments
 - 8.6.4.Product portfolio
 - 8.6.5.R&D Expenditure
 - 8.6.6.Business performance
 - 8.6.7.Key strategic moves and developments
- 8.7.STMicroelectronics
 - 8.7.1.Company overview
 - 8.7.2.Company snapshot
 - 8.7.3.Operating business segments
 - 8.7.4.Product portfolio
 - 8.7.5.R&D Expenditure
 - 8.7.6.Business performance
 - 8.7.7.Key strategic moves and developments
- 8.8.SONY CORPORATION
 - 8.8.1.Company overview
 - 8.8.2.Company snapshot
 - 8.8.3.Operating business segments
 - 8.8.4.Product portfolio
 - 8.8.5.R&D Expenditure
 - 8.8.6.Business performance
 - 8.8.7.Key strategic moves and developments
- 8.9.TE Connectivity
 - 8.9.1.Company overview
 - 8.9.2.Company snapshot
 - 8.9.3.Operating business segments
 - 8.9.4.Product portfolio

- 8.9.5.R&D Expenditure
- 8.9.6.Business performance
- 8.9.7.Key strategic moves and developments
- 8.10.Texas Instruments
 - 8.10.1.Company overview
 - 8.10.2.Company snapshot
 - 8.10.3.Operating business segments
 - 8.10.4.Product portfolio
 - 8.10.5.R&D Expenditure
 - 8.10.6.Business performance
 - 8.10.7.Key strategic moves and developments
- 8.11.Taiwan Semiconductor Manufacturing Company Limited
 - 8.11.1.Company overview
 - 8.11.2.Company snapshot
 - 8.11.3.Operating business segments
 - 8.11.4.Product portfolio
 - 8.11.5.Business performance

List Of Tables

LIST OF TABLES

- TABLE 01.GLOBAL SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)
- TABLE 02.RADAR SENSOR MARKET, BY REGION 2019-2028 (\$MILLION)
- TABLE 03.OPTICAL SENSOR MARKET, BY REGION 2019-2028 (\$MILLION)
- TABLE 04.BIO SENSOR MARKET, BY REGION 2019–2028 (\$MILLION)
- TABLE 05.TOUCH SENSOR MARKET, BY REGION 2019–2028 (\$MILLION)
- TABLE 06.IMAGE SENSOR MARKET, BY REGION 2019–2028 (\$MILLION)
- TABLE 07.PRESSURE SENSOR MARKET, BY REGION 2019–2028 (\$MILLION)
- TABLE 08.TEMPERATURE SENSOR MARKET FOR TEMPERATURE SENSOR, BY REGION 2019–2028 (\$MILLION)
- TABLE 09.PROXIMITY & DISPLACEMENT SENSOR MARKET, BY REGION 2019–2028 (\$MILLION)
- TABLE 10.LEVEL SENSOR MARKET, BY REGION 2019–2028 (\$MILLION)
- TABLE 11.MOTION & POSITION SENSOR MARKET, BY REGION 2019–2028 (\$MILLION)
- TABLE 12.HUMIDITY SENSOR MARKET, BY REGION 2019–2028 (\$MILLION)
- TABLE 13.ACCELEROMETER & SPEED SENSOR MARKET, BY REGION 2019–2028 (\$MILLION)
- TABLE 14.SENSOR MARKET FOR OTHER SENSORS, BY REGION 2019–2028 (\$MILLION)
- TABLE 15.GLOBAL SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)
- TABLE 16.SENSOR MARKET FOR CMOS, BY REGION 2019-2028 (\$MILLION)
- TABLE 17.SENSOR MARKET FOR MEMS, BY REGION 2019-2028 (\$MILLION)
- TABLE 18.SENSOR MARKET FOR NEMS, BY REGION 2019–2028 (\$MILLION)
- TABLE 19.SENSOR MARKET FOR OTHERS, BY REGION 2019–2028 (\$MILLION)
- TABLE 20.GLOBAL SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)
- TABLE 21.SENSOR MARKET FOR ELECTRONICS, BY REGION 2019-2028 (\$MILLION)
- TABLE 22.SENSOR MARKET FOR IT & TELECOM, BY REGION 2019-2028 (\$MILLION)
- TABLE 23.SENSOR MARKET FOR INDUSTRIAL, BY REGION 2019–2028 (\$MILLION)
- TABLE 24.SENSOR MARKET FOR AUTOMOTIVE, BY REGION 2019–2028 (\$MILLION)
- TABLE 25.SENSOR MARKET FOR AEROSPACE & DEFENSE, BY REGION 2019–2028 (\$MILLION)
- TABLE 26.SENSOR MARKET FOR HEALTHCARE, BY REGION 2019–2028

(\$MILLION)

TABLE 27.SENSOR MARKET FOR OTHERS, BY REGION 2019–2028 (\$MILLION)

TABLE 28.SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 29.NORTH AMERICAN SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 30.NORTH AMERICAN SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)

TABLE 31.U. S. SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 32.U. S. SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 33.U. S. SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)

TABLE 34.CANADA SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 35.CANADA SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 36.CANADA SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)

TABLE 37.MEXICO SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 38.MEXICO SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 39.MEXICO SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)

TABLE 40.EUROPE SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 41.EUROPE SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 42.EUROPE SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)

TABLE 43.UK SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 44.UK SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 45.UK SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)

TABLE 46.GERMANY SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 47.GERMANY SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 48.GERMANY SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)

TABLE 49.FRANCE SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 50.FRANCE SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 51.FRANCE SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)

TABLE 52.ITALY SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 53.ITALY SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 54.ITALY SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)

TABLE 55.REST OF EUROPE SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 56.REST OF EUROPE SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 57.REST OF EUROPE SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)

TABLE 58.ASIA PACIFIC SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 59.ASIA PACIFIC SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 60.ASIA PACIFIC SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)

TABLE 61.CHINA SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 62.CHINA SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 63.CHINA SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)

TABLE 64.JAPAN SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 65.JAPAN SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 66.JAPAN SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)

TABLE 67.INDIA SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 68.INDIA SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 69.INDIA SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)

TABLE 70.SOUTH KOREA SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 71.SOUTH KOREA SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 72.SOUTH KOREA SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)

TABLE 73.REST OF ASIA-PACIFIC SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 74.REST OF ASIA-PACIFIC SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 75.REST OF ASIA-PACIFIC SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)

TABLE 76.LAMEA SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 77.LAMEA SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 78.LAMEA SENSOR MARKET FORECASR, BY END USER, 2019-2028 (\$MILLION)

TABLE 79.LATIN AMERICA SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 80.LATIN AMERICA SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 81.LATIN AMERICA SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)

TABLE 82.MIDDLE EAST SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 83.MIDDLE EAST SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 84.MIDDLE EAST SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)

TABLE 85.AFRICA SENSOR MARKET, BY TYPE, 2019-2028 (\$MILLION)

TABLE 86.AFRICA SENSOR MARKET, BY TECHNOLOGY, 2019-2028 (\$MILLION)

TABLE 87.AFRICA SENSOR MARKET, BY END USER, 2019-2028 (\$MILLION)

TABLE 88.HPE: COMPANY SNAPSHOT

TABLE 89.HPE: OPERATING SEGMENTS

TABLE 90.HPE: PRODUCT PORTFOLIO

TABLE 91.HPE: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 92.INFINEON TECHNOLOGIES AG: COMPANY SNAPSHOT

TABLE 93.INFINEON TECHNOLOGIES AG: OPERATING SEGMENTS

TABLE 94.INFINEON TECHNOLOGIES AG: PRODUCT PORTFOLIO

TABLE 95.INFINEON TECHNOLOGIES AG: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 96.MICROCHIP TECHNOLOGY INC.: COMPANY SNAPSHOT

TABLE 97.MICROCHIP TECHNOLOGY INC.: OPERATING SEGMENTS

TABLE 98.MICROCHIP TECHNOLOGY INC.: PRODUCT PORTFOLIO

TABLE 99.MICROCHIP TECHNOLOGY INC.: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 100.COMPANY SNAPSHOT

TABLE 101.NXP: OPERATING SEGMENTS

TABLE 102.NXP: PRODUCT PORTFOLIO

TABLE 103.PANASONIC CORPORATION: COMPANY SNAPSHOT

TABLE 104.PANASONIC CORPORATION: OPERATING SEGMENTS

TABLE 105.PANASONIC CORPORATION: PRODUCT PORTFOLIO

TABLE 106.PANASONIC CORPORATION: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 107.QUALCOMM TECHNOLOGIES, INC.: COMPANY SNAPSHOT

TABLE 108.QUALCOMM TECHNOLOGIES, INC.: PRODUCT CATEGORY

TABLE 109.QUALCOMM TECHNOLOGIES, INC.: PRODUCT PORTFOLIO

TABLE 110.QUALCOMM TECHNOLOGIES: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 111.STMICROELECTRONICS N.V.:COMPANY SNAPSHOT

TABLE 112.STMICROELECTRONICS: OPERATING SEGMENTS

TABLE 113.STMICROELECTRONICS: PRODUCT PORTFOLIO

TABLE 114.STMICROELECTRONICS: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 115.SONY CORPORATION: COMPANY SNAPSHOT

TABLE 116.SONY CORPORATION: OPERATING SEGMENTS

TABLE 117.SONY CORPORATION: PRODUCT PORTFOLIO

TABLE 118.SONY CORPORATION: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 119.TE CONNECTIVITY:COMPANY SNAPSHOT

TABLE 120.TE CONNECTIVITY: OPERATING SEGMENTS

TABLE 121.TE CONNECTIVITY: PRODUCT PORTFOLIO

TABLE 122.TE CONNECTIVITY: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 123.TEXAS INSTRUMENTS:COMPANY SNAPSHOT

TABLE 124.TEXAS INSTRUMENTS: OPERATING SEGMENTS

TABLE 125.TEXAS INSTRUMENTS: PRODUCT PORTFOLIO

TABLE 126.TEXAS INSTRUMENTS: KEY STRATEGIC MOVES AND DEVELOPMENTS

TABLE 127.TSMC: COMPANY SNAPSHOT

TABLE 128.TSMC: OPERATING SEGMENTS

TABLE 129.TSMC: PRODUCT PORTFOLIO

List Of Figures

LIST OF FIGURES

FIGURE 01.KEY MARKET SEGMENTS

FIGURE 02.EXECUTIVE SUMMARY

FIGURE 03.EXECUTIVE SUMMARY

FIGURE 04.EXECUTIVE SUMMARY

FIGURE 05.TOP IMPACTING FACTORS

FIGURE 06.TOP INVESTMENT POCKETS

FIGURE 07.TOP WINNING STRATEGIES, BY YEAR

FIGURE 08.TOP WINNING STRATEGIES, BY STRATEGY

FIGURE 09.TOP WINNING STRATEGIES, BY COMPANY

FIGURE 10.HIGH BARGAINING POWER OF SUPPLIERS

FIGURE 11.MODERATE THREAT OF NEW ENTRANTS

FIGURE 12.MODERATE THREAT OF SUBSTITUTES

FIGURE 13.HIGH-TO-MODERATE INTENSITY OF RIVALRY

FIGURE 14.LOW BARGAINING POWER OF BUYERS

FIGURE 15.GLOBAL SENSOR MARKET SHARE, BY TYPE, 2019–2028 (%)

FIGURE 16.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR RADAR SENSOR, BY COUNTRY, 2019 & 2028 (%)

FIGURE 17.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR OPTICAL SENSOR, BY COUNTRY, 2019 & 2028 (%)

FIGURE 18.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR BIOSENSOR, BY COUNTRY, 2019 & 2028 (%)

FIGURE 19.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR TOUCH SENSOR, BY COUNTRY, 2019 & 2028 (%)

FIGURE 20.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR IMAGE SENSOR, BY COUNTRY, 2019 & 2028 (%)

FIGURE 21.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR PRESSURE SENSOR, BY COUNTRY, 2019 & 2028 (%)

FIGURE 22.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR TEMPERATURE SENSOR, BY COUNTRY, 2019 & 2028 (%)

FIGURE 23.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR PROXIMITY & DISPLACEMENT SENSOR, BY COUNTRY, 2019 & 2028 (%)

FIGURE 24.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR LEVEL SENSOR, BY COUNTRY, 2019 & 2028 (%)

FIGURE 25.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR MOTION & POSITION SENSOR, BY COUNTRY, 2019 & 2028 (%)

- FIGURE 26.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR HUMIDITY SENSOR, BY COUNTRY, 2019 & 2028 (%)
- FIGURE 27.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR ACCELEROMETER & SPEED SENSOR, BY COUNTRY, 2019 & 2028 (%)
- FIGURE 28.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR OTHER SENSORS, BY COUNTRY, 2019 & 2028 (%)
- FIGURE 29.GLOBAL SENSOR MARKET SHARE, BY TECHNOLOGY, 2019–2028 (%)
- FIGURE 30.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR CMOS, BY COUNTRY, 2019 & 2028 (%)
- FIGURE 31.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR MEMS, BY COUNTRY, 2019 & 2028 (%)
- FIGURE 32.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR NEMS, BY COUNTRY, 2019 & 2028 (%)
- FIGURE 33.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR OTHERS, BY COUNTRY, 2019 & 2028 (%)
- FIGURE 34.GLOBAL SENSOR MARKET SHARE, BY END USER, 2019–2028 (%)
- FIGURE 35.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR ELECTRONICS, BY COUNTRY, 2019 & 2028 (%)
- FIGURE 36.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR IT & TELECOM, BY COUNTRY, 2019 & 2028 (%)
- FIGURE 37.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR INDUSTRIAL, BY COUNTRY, 2019 & 2028 (%)
- FIGURE 38.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR AUTOMOTIVE, BY COUNTRY, 2019 & 2028 (%)
- FIGURE 39.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR AEROSPACE & DEFENSE, BY COUNTRY, 2019 & 2028 (%)
- FIGURE 40.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR HEALTHCARE, BY COUNTRY, 2019 & 2028 (%)
- FIGURE 41.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET FOR OTHERS, BY COUNTRY, 2019 & 2028 (%)
- FIGURE 42.SENSOR MARKET, BY REGION, 2019-2028 (%)
- FIGURE 43.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET, BY COUNTRY, 2019–2028 (%)
- FIGURE 44.U. S. SENSORS MARKET, 2019–2028 (\$MILLION)
- FIGURE 45.CANADA SENSOR MARKET, 2019–2028 (\$MILLION)
- FIGURE 46.MEXICO SENSOR MARKET, 2019–2028 (\$MILLION)
- FIGURE 47.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET, BY COUNTRY, 2019–2028 (%)
- FIGURE 48.U.K. SENSOR MARKET, 2019–2028 (\$MILLION)

- FIGURE 49.GERMANY SENSOR MARKET, 2019–2028 (\$MILLION)
- FIGURE 50.FRANCE SENSOR MARKET, 2019–2028 (\$MILLION)
- FIGURE 51.ITALY SENSOR MARKET, 2019–2028 (\$MILLION)
- FIGURE 52.REST OF EUROPE SENSOR MARKET, 2019–2028 (\$MILLION)
- FIGURE 53.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET, BY COUNTRY, 2019–2028 (%)
- FIGURE 54.CHINA SENSOR MARKET, 2019–2028 (\$MILLION)
- FIGURE 55.JAPAN SENSOR MARKET, 2019-2028 (\$MILLION)
- FIGURE 56.INDIA SENSOR MARKET, 2019–2028 (\$MILLION)
- FIGURE 57.SOUTH KOREA SENSOR MARKET, 2019–2028 (\$MILLION)
- FIGURE 58.REST OF ASIA-PACIFIC SENSOR MARKET, 2019–2028 (\$MILLION)
- FIGURE 59.COMPARATIVE SHARE ANALYSIS OF SENSOR MARKET, BY COUNTRY, 2019–2028 (%)
- FIGURE 60.LATIN AMERICA SENSOR MARKET, 2019–2028 (\$MILLION)
- FIGURE 61.MIDDLE EAST SENSOR MARKET, 2019–2028 (\$MILLION)
- FIGURE 62.AFRICA SENSOR MARKET, 2019–2028 (\$MILLION)
- FIGURE 63.HPE: R&D EXPENDITURE, 2018–2020 (\$MILLION)
- FIGURE 64.HPE: REVENUE, 2018–2020 (\$MILLION)
- FIGURE 65.HPE: REVENUE SHARE BY SEGMENT, 2020 (%)
- FIGURE 66.HPE: REVENUE SHARE BY REGION, 2020 (%)
- FIGURE 67.INFINEON TECHNOLOGIES AG: R&D EXPENDITURE, 2018–2020 (\$MILLION)
- FIGURE 68.INFINEON TECHNOLOGIES AG: NET SALES, 2018–2020 (\$MILLION)
- FIGURE 69.INFINEON TECHNOLOGIES AG: REVENUE SHARE BY SEGMENT, 2020 (%)
- FIGURE 70.INFINEON TECHNOLOGIES AG: REVENUE SHARE BY REGION, 2020 (%)
- FIGURE 71.MICROCHIP TECHNOLOGY INC.: R&D EXPENDITURE, 2018–2020 (\$MILLION)
- FIGURE 72.MICROCHIP TECHNOLOGY INC.: REVENUE, 2018–2020 (\$MILLION)
- FIGURE 73.MICROCHIP TECHNOLOGY INC.: REVENUE SHARE BY SEGMENT, 2020 (%)
- FIGURE 74.MICROCHIP TECHNOLOGY INC.: REVENUE SHARE BY REGION, 2020 (%)
- FIGURE 75.NXP: R&D EXPENDITURE, 2018–2020 (\$MILLION)
- FIGURE 76.NXP: NET SALES, 2018–2020 (\$MILLION)
- FIGURE 77.NXP: REVENUE SHARE, BY SEGMENT, 2020 (%)
- FIGURE 78.NXP: REVENUE SHARE, BY REGION, 2020 (%)
- FIGURE 79.PANASONIC CORPORATION: R&D EXPENDITURE, 2018–2020

(\$MILLION)

FIGURE 80.PANASONIC CORPORATION: REVENUE, 2018–2020 (\$MILLION)

FIGURE 81.PANASONIC CORPORATION: REVENUE SHARE BY SEGMENT, 2020 (%)

FIGURE 82.PANASONIC CORPORATION: REVENUE SHARE BY REGION, 2020 (%)

FIGURE 83.QUALCOMM TECHNOLOGIES, INC.: R&D EXPENDITURE, 2018–2020 (\$MILLION)

FIGURE 84.QUALCOMM TECHNOLOGIES, INC.: REVENUE, 2018–2020 (\$MILLION)

FIGURE 85.QUALCOMM TECHNOLOGIES, INC.: REVENUE SHARE BY SEGMENT, 2020 (%)

FIGURE 86.QUALCOMM TECHNOLOGIES, INC.: REVENUE SHARE BY REGION, 2020 (%)

FIGURE 87.STMICROELECTRONICS: R&D EXPENDITURE, 2018–2020 (\$MILLION)

FIGURE 88.STMICROELECTRONICS: NET SALES, 2018–2020 (\$MILLION)

FIGURE 89.STMICROELECTRONICS: REVENUE SHARE, BY SEGMENT, 2020 (%)

FIGURE 90.STMICROELECTRONICS: REVENUE SHARE, BY REGION, 2020 (%)

FIGURE 91.SONY CORPORATION: R&D EXPENDITURE, 2018–2020 (\$MILLION)

FIGURE 92.SONY CORPORATION: REVENUE, 2018–2020 (\$MILLION)

FIGURE 93.SONY CORPORATION: REVENUE SHARE BY SEGMENT, 2020 (%)

FIGURE 94.SONY CORPORATION: REVENUE SHARE BY REGION, 2020 (%)

FIGURE 95.TE CONNECTIVITY: R&D EXPENDITURE, 2018–2020 (\$MILLION)

FIGURE 96.TE CONNECTIVITY: NET SALES, 2018–2020 (\$MILLION)

FIGURE 97.TE CONNECTIVITY: REVENUE SHARE, BY SEGMENT, 2020 (%)

FIGURE 98.TE CONNECTIVITY: REVENUE SHARE, BY REGION, 2020 (%)

FIGURE 99.TEXAS INSTRUMENTS: R&D EXPENDITURE, 2018–2020 (\$MILLION)

FIGURE 100.TEXAS INSTRUMENTS: NET SALES, 2018–2020 (\$MILLION)

FIGURE 101.TEXAS INSTRUMENTS: REVENUE SHARE, BY SEGMENT, 2020 (%)

FIGURE 102.TEXAS INSTRUMENTS: REVENUE SHARE, BY REGION, 2020 (%)

FIGURE 103.TSMC: NET SALES, 2018–2020 (\$MILLION)

FIGURE 104.TSMC: REVENUE SHARE BY REGION, 2020 (%)

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