Smart Sensor Market by Type, Technology, Component, Connectivity, End-User Industry and Geography - Global Trends and Forecast to 2022

Description: In the current market scenario, there is a growing demand for smart sensors in the consumer electronics industry, automotive industry, healthcare industry, and in some industrial sectors such as textile, material manufacturing, and F&B among others. This is attributed to the increasing demand for sensing technologies among various sectors and the growing vehicle production in economies such as Japan, China, the U.S., and India.

This report aims to estimate the market size and future growth potential of the smart sensor market across different segments such as sensor type, technology, component, network connectivity, end-user industries, and geography. Factors such as the growing concern toward security & surveillance, increasing need for energy-efficient devices, growing consumer electronics sector, surge in automotive industry on a global basis, favorable government initiatives, and growing trend of miniaturization in the sensors segment are expected to boost the growth of the market during the forecast period.

The research methodology used to estimate and forecast the smart sensor market begins with capturing data on key vendor revenues through secondary research. The vendor offerings are also taken into consideration to determine the market segmentation. The bottom-up procedure was employed to arrive at the overall market size of the smart sensor market from the revenue of the key players in the market.

After arriving at the overall market size, the total market was split into several segments and subsegments which are then verified through primary research by conducting extensive interviews with key people such as CEOs, VPs, directors, and executives among others. The data triangulation and market breakdown procedures have been employed to complete the overall market engineering process and arrive at the exact statistics for all segments and subsegments.

The smart sensor ecosystem comprises of chip designers such as Analog Devices, Inc. (U.S.), Micron Technology, Inc. (U.S.), and Qualcomm Inc. (U.S.) among others; component manufacturers such as Atmel Corporation (U.S.), NXP Semiconductors N.V. (Netherlands), Infineon Technologies (U.S.), ABB Ltd. (Switzerland), and Texas Instruments Inc. (U.S.) among others; technology providers such as InvenSense, Inc. (U.S.), STMicroelectronics N.V. (Switzerland), and Robert Bosch GmbH (Germany) among others; and system integrators such as Samsung C&T Corporation (South Korea) and Sony Corporation (Japan) among others who integrate these smart sensors and sell them to end users to cater to their unique business requirements.

Key Target Audience
- Component manufacturers
- Chip designers
- Electronics and semiconductor companies
- Consumer electronics manufacturers
- Sensor manufacturers
- Technology providers
- Original equipment manufacturers (OEMs)
- Technology standards organizations, forums, alliances, and associations
- Universities and research organizations
- Government bodies

Scope of the Report
In the research report, the smart sensor market is segmented into the following submarkets:

By Sensor Type:
- Pressure Sensors
- Temperature & Humidity Sensors
- Flow Sensors
- Image Sensors
- Touch Sensors
- Water Sensors (turbidity sensors, pH sensors, soil moisture sensors, level sensors, and dissolved oxygen (DO2) sensors)
- Motion & Occupancy Sensors
- Position Sensors
- Light Sensors
- Ultrasonic Sensors
- Other Sensors (electrical conductivity sensors, gesture sensors, radar sensors, magnetic field sensors, chemical sensors, UV index sensors, and oxidation reduction potential (ORP) sensors)

By Technology:
- MEMS-based smart sensors
- CMOS-based smart sensors
- Other Technologies (optical spectroscopy, microsystem technology (MST), integrated smart sensors, IC-compatible 3D micro-structuring, and ASIC)

By Component:
- Analog To Digital Converters (ADCs)
- Digital To Analog Converters (DACs)
- Transceivers
- Amplifiers
- Microcontrollers
- Others (microprocessors, transistors, transducers, and frequency-to-digital (FDC) converters)

By Network Connectivity:
- Wired
- Wireless (Bluetooth, Enocean, Wi-Fi, ZigBee, Z-Wave, and Others)

By End-User Industry:
- Industrial Automation
- Biomedical & Healthcare
- Consumer Electronics
  -- Communication & IT (Smartphones, Tablet & PCs, Laptops)
  -- Entertainment (Smart TVs, Gaming Consoles, Digital and Still Cameras)
  -- Home Appliances (Air Conditioners, Washing Machines, Robot Vacuum Cleaners, Refrigerators, Microwave Ovens, Dishwashers)
  -- Wearable Electronics (Wrist Watches (Smart Watch, Fitness Band), Eyewear, Footwear, Bodywear)
- Building Automation
  -- Access Control
  -- Radio Frequency Identification (RFID)
  -- Security & Surveillance
  -- Lighting Source
  -- Heating, Ventilation, and Air Conditioning (HVAC)
  -- Others
- Automotive
- Aerospace & Defense
- Others (Education, Robotics, Agriculture, Transportation System, and so on)

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- Asia-Pacific
- Rest of the World (Middle East and Africa)
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Figure 97 Infineon Technologies AG: Company Snapshot
Figure 98 Infineon Technologies AG: SWOT Analysis
Figure 99 Stmicroelectronics N.V.: Company Snapshot
Figure 100 Stmicroelectronics N.V.: SWOT Analysis
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