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Wireless Sensor Network Market by Offering (Hardware, Software, Services), Sensor Type, Connectivity Type, End-user Industry (Building Automation, Wearable Devices, Healthcare, Automotive & Transportation, Industrial), and Region - Global Forecast to 2023

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Abstracts

“Wireless sensor network market is expected to grow at a CAGR of 18.55% between 2017 and 2023.”

The overall wireless sensor network (WSN) market was valued at USD 29.06 billion in 2016 and is expected to reach USD 93.86 billion by 2023, at a CAGR of 18.55% between 2017 and 2023. The growth of this market is propelled by the development of cheaper, smarter, and smaller sensors; expanding market for smart and wearable devices; increasing need for real-time computing of applications; and surge in demand for IoT sensors for various applications such as sensing, recognition, and interpretation. However, factors such as rising concerns regarding security and privacy of network platforms and lack of standardization of protocols for devices to be able to communicate with each other, share data, or form an intelligent network act as restraints for the growth of the wireless sensor networks market.

“Ambient light sensors held the largest market share in 2016”

Ambient light sensors have built-in photodiode, which controls display luminosity depending on ambient brightness, thereby saving battery life. Building automation has witnessed a significant growth in the past 10 years as automation offers high-performance buildings with improved energy efficiency, low operating cost, and better

indoor environment for occupants. Ambient light sensors are used in automatic doors and access systems, elevators, escalators, and lighting control systems. Building automation is one of the fastest-growing application areas for ambient light sensors. Due to the extensive usage of these sensors in building automation, ambient light sensors held the largest share of the wireless sensor network market in 2016.

“Market for NFC is expected to grow at a high rate between 2017 and 2023.”

In comparison with other wireless technologies, NFC is a customized technology as it combines the interface of a reader and a smartcard into a single device. It enables two-way interactions between electronic devices, especially smartphones, allowing users to access digital content, make contactless payment transactions, and connect and share information between IoT-enabled electronic devices. NFC connectivity ICs are widely used in industries such as healthcare, building automation, and wearable devices.

“Wireless sensor network market in APAC is expected to grow at a high rate between 2017 and 2023”

The global IoT market is growing at a high rate; in line with this, the market for IoT nodes and gateways in APAC is expected to grow at a higher rate compared with the market in other regions as majority of the global population is concentrated in APAC. Owing to this, the number of new M2M connections per year, the demand for smart consumer devices, and the need for industrial revolution is higher in this region. IoT applications seem to have more opportunities to improve the standard of living and revolutionize the industrial sector in APAC due to the large population in some of the developing economies such as China, India, and Thailand in APAC, along with issues related to healthcare and energy management. In addition, investments by the government in the development and modernization of businesses in China and India are incorporating more IoT elements.

The building automation industry is a major contributor to the growth of the market in North America. Some of the key providers of building automation solutions, such as Honeywell International Inc. (US), United Technologies Corporation (US), and Hubbell, Inc. (US), are based in this region and are actively involved in product launches, acquisitions, and partnerships to expand their market reach. This is driving the growth of the wireless sensor network in North America.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews have

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been conducted with people holding key positions across several regions. The breakup of the profile of primary participants has been given below.

By Company Type: Tier 1—25 %, Tier 2—25%, and Tier 3—50%

By Designation: C-Level Executives—25%, Manager Level—35%, and Others (Sales, Marketing, and Product Managers)—40%

By Region: North America—50%, Europe—30%, APAC—10%, and RoW—10%

The major players in the wireless sensor network market include Intel Corporation (US), ABB Ltd. (Switzerland), Texas Instruments Inc. (US), Huawei Investment & Holding Co., Ltd. (China), Cisco Systems Inc. (US), STMicroelectronics N.V. (Netherlands), TE Connectivity Ltd. (Switzerland), NXP Semiconductor N.V. (Netherlands), Dell Inc. (US), Hewlett Packard Enterprise Company (US), Robert Bosch GmbH (Germany), Advantech Co., Ltd. (Taiwan), Honeywell International Inc. (US), Broadcom Limited (US), Infineon Technologies AG (Germany), Emerson Electric Company (US), Analog Devices Inc. (US), Eurotech S.p.A (Italy), Invensense Inc. (US), and Sensirion AG (Switzerland). Some of the important start-ups in the market are SmartThings Inc. (US), Episensor Ltd. (Ireland), Notion (US), Helium Systems Inc. (US), and Beep Inc. (US).

Research Coverage

The wireless sensor network market has been segmented on the basis of offering, sensor type, connectivity type, end-user industries, and region. The market, on the basis of offering, has been segmented into hardware, software, and services. On the basis of sensor type, the market has been segmented into accelerometers, IMUs, heart rate sensors, blood glucose sensors, blood oxygen sensors, ECG sensors, ambient light sensors, pressure sensors, temperature sensors, humidity sensors, level sensors, flow sensors, chemical sensors, motion & position sensors, carbon monoxide sensors, image sensors, and others (MRR, ultrasonic sensors, vehicle detection sensors, pedestrian presence sensors, speed sensors, and soil moisture sensors). On the basis of connectivity type, the wireless sensor network market has been segmented into ANT+, Bluetooth, Bluetooth Smart/BLE, Bluetooth/Wi-Fi, ZigBee, WiFi, NFC, cellular network, GPS/GNSS module, WHART, and ISA100. The end-user industries of wireless sensor networks considered in this report are wearable devices, healthcare, automotive & transportation, building automation, industrial, retail, BFSI, oil & gas, agriculture, and aerospace & defense.

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Reasons to buy the report:

The report would help the market leaders/new entrants in this market in the following ways:

1. This report segments the wireless sensor network market comprehensively and provides the closest approximations of the size of the overall market and its subsegments for various applications and across different regions.
2. The report helps stakeholders understand the pulse of the market and provides them with the information on key market drivers, restraints, challenges, and opportunities pertaining to the market.

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Contents

1 INTRODUCTION

1.1 OBJECTIVES OF THE STUDY
1.2 MARKET DEFINITION
1.3 STUDY SCOPE
  1.3.1 MARKETS COVERED
  1.3.2 YEARS CONSIDERED FOR THIS STUDY
1.4 CURRENCY
1.5 LIMITATIONS
1.6 STAKEHOLDERS

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA
  2.1.1 SECONDARY DATA
    2.1.1.1 Key data from secondary sources
  2.1.2 PRIMARY DATA
    2.1.2.1 Key data from primary sources
    2.1.2.2 Key industry insights
    2.1.2.3 Breakdown of primaries
2.2 MARKET SIZE ESTIMATION
  2.2.1 BOTTOM-UP APPROACH
  2.2.2 TOP-DOWN APPROACH
2.3 MARKET BREAKDOWN & DATA TRIANGULATION
2.4 RESEARCH ASSUMPTIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE MARKET OPPORTUNITIES IN THE WIRELESS SENSOR NETWORK MARKET
4.2 WIRELESS SENSOR NETWORK MARKET, BY CONNECTIVITY TYPE, 2016 VS. 2023 (MILLION UNITS)
4.3 WIRELESS SENSOR NETWORK MARKET, BY END-USER INDUSTRY
4.4 WIRELESS SENSOR NETWORK MARKET, BY SENSOR AND BY REGION
4.5 WIRELESS SENSOR NETWORK MARKET, BY REGION

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5 MARKET OVERVIEW

5.1 INTRODUCTION
5.2 MARKET DYNAMICS
5.2.1 DRIVERS
5.2.1.1 Increasing demand for remote monitoring
5.2.1.2 Growing market for smart devices and wearable devices
5.2.2 RESTRAINTS
5.2.2.1 Privacy and security concerns
5.2.2.2 Difficulty in standardization of wireless sensor network
5.2.3 OPPORTUNITIES
5.2.3.1 Growth in the adoption of WSN across SMBs
5.2.3.2 Growing adoption of smart technologies and distributed applications
5.2.3.3 Predictive maintenance
5.2.4 CHALLENGES
5.2.4.1 Limited power source
5.3 VALUE CHAIN ANALYSIS
5.3.1 CORE INDUSTRY SEGMENTS
5.3.1.1 Research and development
5.3.1.2 Component manufacturers
5.3.1.3 System integrators
5.3.1.4 Distribution, marketing, and sales
5.3.1.5 End-user industries

6 WIRELESS SENSOR NETWORK MARKET, BY OFFERING

6.1 INTRODUCTION
6.2 HARDWARE
6.2.1 PROCESSORS
6.2.1.1 Microcontrollers
6.2.1.2 Microprocessors
6.2.1.3 Digital signal processors
6.2.1.4 Application processors
6.2.2 CONNECTIVITY ICS
6.2.3 SENSORS
6.2.4 MEMORIES
6.2.4.1 On-chip memories
6.2.4.2 Off-chip memories

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6.3 SOFTWARE
6.3.1 PLATFORMS
6.3.1.1 Device management
6.3.1.2 Application management
6.3.1.3 Network management
6.3.2 SOFTWARE SOLUTIONS
6.3.2.1 Real-time streaming analytics
6.3.2.2 Security solutions
6.3.2.3 Data management
6.3.2.4 Remote monitoring systems
6.3.2.5 Network bandwidth management
6.4 SERVICES
6.4.1 DEPLOYMENT & INTEGRATION
6.4.2 SUPPORT & MAINTENANCE

7 WIRELESS SENSOR NETWORK MARKET, BY SENSOR TYPE

7.1 INTRODUCTION
7.2 AMBIENT LIGHT SENSORS
7.3 MOTION AND POSITION SENSORS
7.4 TEMPERATURE SENSORS
7.5 HEART RATE SENSORS
7.6 PRESSURE SENSORS
7.7 INERTIAL MEASUREMENT UNITS (IMU)
7.8 ACCELEROMETERS
7.9 BLOOD GLUCOSE SENSORS
7.10 IMAGE SENSORS
7.11 HUMIDITY SENSORS
7.12 CARBON MONOXIDE SENSORS
7.13 BLOOD OXYGEN SENSORS
7.14 FLOW SENSORS
7.15 LEVEL SENSORS
7.16 CHEMICAL SENSORS
7.17 ELECTROCARDIOGRAM (ECG) SENSORS
7.18 OTHERS

8 WIRELESS SENSOR NETWORK MARKET, BY CONNECTIVITY TYPE

8.1 INTRODUCTION

+44 20 8123 2220
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8.2 ANT+
8.3 BLUETOOTH
8.4 BLUETOOTH SMART/BLUETOOTH LOW ENERGY (BLE)
8.5 ZIGBEE
8.6 WIRELESS FIDELITY (WI-FI)
8.7 NEAR-FIELD COMMUNICATION (NFC)
8.8 CELLULAR NETWORK
8.9 WIRELESS HIGHWAY ADDRESSABLE REMOTE TRANSDUCER (WHART)
8.10 GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) MODULE
8.11 ISA100
8.12 BLUETOOTH/ WLAN

9 WIRELESS SENSOR NETWORK MARKET, BY END-USER INDUSTRY

9.1 INTRODUCTION
9.2 BUILDING AUTOMATION
  9.2.1 LIGHTING CONTROL SYSTEMS
  9.2.2 HVAC CONTROL SYSTEMS
  9.2.3 SECURITY & ACCESS SYSTEMS
  9.2.4 FIRE PROTECTION SYSTEMS
  9.2.5 SMART METERS
9.3 WEARABLE DEVICES
  9.3.1 ACTIVITY MONITORS
  9.3.2 SMARTWATCHES
  9.3.3 SMART GLASSES
  9.3.4 BODY WORN CAMERAS
9.4 HEALTHCARE
  9.4.1 PORTable MEDICAL DEVICES
  9.4.2 DIAGNOSTIC & THERAPY DEVICE
  9.4.3 WEARABLE DEVICES
9.5 AUTOMOTIVE & TRANSPORTATION
9.6 INDUSTRIAL
9.7 OIL & GAS
9.8 RETAIL
9.9 AGRICULTURE
9.10 AEROSPACE & DEFENSE
9.11 BANKING, FINANCIAL SERVICES, AND INSURANCE (BFSI)

10 GEOGRAPHIC ANALYSIS

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10.1 INTRODUCTION
10.2 NORTH AMERICA
  10.2.1 US
  10.2.2 CANADA
  10.2.3 MEXICO
10.3 EUROPE
  10.3.1 GERMANY
  10.3.2 UK
  10.3.3 FRANCE
  10.3.4 REST OF EUROPE
10.4 APAC
  10.4.1 CHINA
  10.4.2 JAPAN
  10.4.3 SOUTH KOREA
  10.4.4 INDIA
  10.4.5 REST OF APAC
10.5 ROW
  10.5.1 MIDDLE EAST & AFRICA
  10.5.2 SOUTH AMERICA

11 COMPETITIVE LANDSCAPE

11.1 OVERVIEW
11.2 KEY PLAYERS IN THE WIRELESS SENSOR NETWORK MARKET
11.3 WIRELESS SENSOR NETWORK MARKET (GLOBAL) COMPETITIVE LEADERSHIP MAPPING, 2016
  11.3.1 VISIONARY LEADERS
  11.3.2 DYNAMIC DIFFERENTIATORS
  11.3.3 INNOVATORS
  11.3.4 EMERGING COMPANIES
11.4 BUSINESS STRATEGIES ADOPTED BY MAJOR PLAYERS IN THE WIRELESS SENSOR NETWORK MARKET (FOR ALL 25 COMPANIES)
11.5 PRODUCT OFFERINGS BY MAJOR PLAYERS IN THE WIRELESS SENSOR NETWORK MARKET (FOR ALL 25 COMPANIES)

*Top 25 companies analyzed for this study are - Intel Corporation, Texas Instruments Inc., Huawei Investment & Holding Co. Ltd., Cisco Systems Inc., STMicroelectronics N.V., TE Connectivity Ltd., NXP Semiconductor N.V., Dell Inc., Hewlett Packard

Enterprise Company, Robert Bosch GmbH, Advantech Co. Ltd., Honeywell International Inc., Broadcom Limited, Infineon Technologies AG, Eurotech S.p.A, Invensense Inc., and Sensirion AG, SmartThings Inc., Episensor Ltd., Notion, Helium Systems Inc., Beep Inc., Lantronix Inc., AdLink Technology Inc., Prodrive Technologies

12 COMPANY PROFILES

(Business Overview, Products offered & Services strategies, Key Insights, Recent Developments, MnM View)*

12.1 INTRODUCTION
12.2 INTEL CORPORATION
12.3 HUAWEI INVESTMENT & HOLDING CO., LTD.
12.4 DELL INCORPORATION
12.5 TEXAS INSTRUMENTS INC.
12.6 CISCO SYSTEMS INC.
12.7 HEWLETT PACKARD ENTERPRISE CO.
12.8 NXP SEMICONDUCTORS N.V.
12.9 STMICROELECTRONICS N.V.
12.10 TE CONNECTIVITY LTD.
12.11 ADVANTECH CO., LTD.
12.12 ABB LTD.
12.13 HONEYWELL INTERNATIONAL INC.
12.14 BROADCOM LIMITED
12.15 SROBERT BOSCH GMBH
12.16 EUROTECH S.P.A
12.17 INVENSENSE, INC.
12.18 INFINEON TECHNOLOGIES AG
12.19 ANALOG DEVICES, INC.
12.20 EMERSON ELECTRIC COMPANY
12.21 SENSIRION AG
12.22 START-UP ECOSYSTEM
  12.22.1 EPISENSOR LTD.
  12.22.2 NOTION
  12.22.3 HELIUM SYSTEMS INC.
  12.22.4 BEEP INC.
  12.22.5 SMARTTHINGS, INC.

*Details on Business Overview, Products offered & Services strategies, Key Insights,

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Recent Developments, MnM View might not be captured in case of unlisted companies.

13 APPENDIX

13.1 INSIGHTS FROM INDUSTRY EXPERTS
13.2 DISCUSSION GUIDE
13.3 KNOWLEDGE STORE: MARKETSANDMARKETS’ SUBSCRIPTION PORTAL
13.4 INTRODUCING RT: REAL-TIME MARKET INTELLIGENCE
13.5 AVAILABLE CUSTOMIZATION
13.6 RELATED REPORTS
13.7 AUTHOR DETAILS

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List Of Tables

LIST OF TABLES

Table 1 WIRELESS SENSOR NETWORK MARKET, BY OFFERING, 2015–2023 (USD MILLION)
Table 2 WIRELESS SENSOR NETWORK MARKET, BY HARDWARE, 2015–2023 (USD MILLION)
Table 3 WIRELESS SENSOR NETWORK MARKET, BY HARDWARE, 2015–2023 (MILLION UNITS)
Table 4 WIRELESS SENSOR NETWORK MARKET FOR PROCESSORS, BY TYPE, 2015–2023 (USD MILLION)
Table 5 WIRELESS SENSOR NETWORK MARKET FOR PROCESSORS, BY TYPE, 2015–2023 (MILLION UNITS)
Table 6 WIRELESS SENSOR NETWORK MARKET FOR PROCESSORS, BY END-USER INDUSTRY, 2015–2023 (THOUSAND UNITS)
Table 7 WIRELESS SENSOR NETWORK MARKET FOR MEMORIES, BY TYPE, 2015–2023 (USD MILLION)
Table 8 WIRELESS SENSOR NETWORK MARKET FOR MEMORIES, BY TYPE, 2015–2023 (MILLION UNITS)
Table 9 WIRELESS SENSOR NETWORK MARKET FOR MEMORIES, BY END-USER INDUSTRY, 2015–2023 (THOUSAND UNITS)
Table 10 WIRELESS SENSOR NETWORK MARKET FOR SOFTWARE, BY TYPE, 2015–2023 (USD MILLION)
Table 11 WIRELESS SENSOR NETWORK MARKET FOR PLATFORMS, BY TYPE, 2015–2023 (USD MILLION)
Table 12 WIRELESS SENSOR NETWORK MARKET FOR SOFTWARE SOLUTIONS, BY TYPE, 2015–2023 (USD MILLION)
Table 13 WIRELESS SENSOR NETWORK MARKET FOR SERVICES, BY TYPE, 2015–2023 (USD MILLION)
Table 14 WIRELESS SENSOR NETWORK MARKET, BY SENSOR TYPE, 2015–2023 (MILLION UNITS)
Table 15 WIRELESS SENSOR NETWORK MARKET, BY SENSOR TYPE, 2015–2023 (USD MILLION)
Table 16 WIRELESS SENSOR NETWORK MARKET FOR SENSOR TYPE, BY END-USER INDUSTRY, 2015–2023 (THOUSAND UNITS)
Table 17 WIRELESS SENSOR NETWORK MARKET FOR SENSOR TYPE, BY END-USER INDUSTRY, 2015–2023 (USD THOUSAND)
Table 18 WIRELESS SENSOR NETWORK MARKET, BY CONNECTIVITY TYPE,

+44 20 8123 2220
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2015–2023 (MILLION UNITS)
Table 19 WIRELESS SENSOR NETWORK MARKET, BY CONNECTIVITY IC, 2015–2023 (USD MILLION)
Table 20 WIRELESS SENSOR NETWORK MARKET FOR CONNECTIVITY TYPE, BY END-USER INDUSTRY, 2015–2023 (THOUSAND UNITS)
Table 21 WIRELESS SENSOR NETWORK MARKET FOR CONNECTIVITY TYPE, BY END-USER INDUSTRY, 2015–2023 (USD THOUSAND)
Table 22 WIRELESS SENSOR NETWORK MARKET, BY END-USER INDUSTRY, 2015–2023 (USD MILLION)
Table 23 WIRELESS SENSOR NETWORK MARKET FOR GATEWAYS, BY END-USER INDUSTRY, 2015–2023 (THOUSAND UNITS)
Table 24 WIRELESS SENSOR NETWORK MARKET FOR BUILDING AUTOMATION INDUSTRY, BY HARDWARE, 2015–2023 (MILLION UNITS)
Table 25 WIRELESS SENSOR NETWORK MARKET FOR BUILDING AUTOMATION, BY CONNECTIVITY TYPE, 2015–2023 (MILLION UNITS)
Table 26 WIRELESS SENSOR NETWORK MARKET FOR BUILDING AUTOMATION, BY SENSOR TYPE, 2015–2023 (MILLION UNITS)
Table 27 WIRELESS SENSOR NETWORK MARKET FOR HARDWARE FOR BUILDING AUTOMATION, BY REGION, 2015–2023 (USD MILLION)
Table 28 WIRELESS SENSOR NETWORK MARKET FOR WEARABLE DEVICES, BY HARDWARE, 2015–2023 (MILLION UNITS)
Table 29 WIRELESS SENSOR NETWORK MARKET FOR WEARABLE DEVICES, BY SENSOR TYPE, 2015–2023 (MILLION UNITS)
Table 30 WIRELESS SENSOR NETWORK MARKET FOR WEARABLES DEVICES, BY CONNECTIVITY TYPE, 2015–2023 (MILLION UNITS)
Table 31 WIRELESS SENSOR NETWORK MARKET FOR HARDWARE FOR WEARABLE DEVICES, BY REGION, 2015–2023 (USD MILLION)
Table 32 WIRELESS SENSOR NETWORK MARKET FOR HEALTHCARE, BY HARDWARE, 2015–2023 (MILLION UNITS)
Table 33 WIRELESS SENSOR NETWORK MARKET FOR HEALTHCARE, BY CONNECTIVITY TYPE, 2015–2023 (THOUSAND UNITS)
Table 34 WIRELESS SENSOR NETWORK MARKET FOR HEALTHCARE, BY SENSOR TYPE, 2015–2023 (MILLION UNITS)
Table 35 WIRELESS SENSOR NETWORK MARKET FOR HARDWARE FOR HEALTHCARE, BY REGION, 2015–2023 (USD MILLION)
Table 36 WIRELESS SENSOR NETWORK MARKET FOR AUTOMOTIVE & TRANSPORTATION, BY HARDWARE, 2015–2023 (MILLION UNITS)
Table 37 WIRELESS SENSOR NETWORK MARKET FOR AUTOMOTIVE & TRANSPORTATION, BY CONNECTIVITY TYPE, 2015–2023 (MILLION UNITS)

+44 20 8123 2220
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Table 38 WIRELESS SENSOR NETWORK MARKET FOR AUTOMOTIVE & TRANSPORTATION, BY SENSOR TYPE, 2015–2023 (MILLION UNITS)
Table 39 WIRELESS SENSOR NETWORK MARKET FOR HARDWARE FOR AUTOMOTIVE & TRANSPORTATION, BY REGION, 2015–2023 (USD MILLION)
Table 40 WIRELESS SENSOR NETWORK MARKET FOR INDUSTRIAL, BY HARDWARE, 2015–2023 (MILLION UNITS)
Table 41 WIRELESS SENSOR NETWORK MARKET FOR INDUSTRIAL, BY CONNECTIVITY TYPE, 2015–2023 (MILLION UNITS)
Table 42 WIRELESS SENSOR NETWORK MARKET FOR INDUSTRIAL, BY SENSOR TYPE, 2015–2023 (MILLION UNITS)
Table 43 WIRELESS SENSOR NETWORK MARKET FOR HARDWARE FOR INDUSTRIAL, BY REGION, 2015–2023 (USD MILLION)
Table 44 WIRELESS SENSOR NETWORK MARKET FOR OIL & GAS, BY HARDWARE, 2015–2023 (MILLION UNITS)
Table 45 WIRELESS SENSOR NETWORK MARKET FOR OIL & GAS, BY CONNECTIVITY TYPE, 2015–2023 (MILLION UNITS)
Table 46 WIRELESS SENSOR NETWORK MARKET FOR OIL & GAS, BY SENSOR TYPE, 2015–2023 (THOUSAND UNITS)
Table 47 WIRELESS SENSOR NETWORK MARKET FOR HARDWARE FOR OIL & GAS, BY REGION, 2015–2023 (USD MILLION)
Table 48 WIRELESS SENSOR NETWORK MARKET FOR RETAIL, BY HARDWARE, 2015–2023 (MILLION UNITS)
Table 49 WIRELESS SENSOR NETWORK MARKET FOR RETAIL, BY SENSOR TYPE, 2015–2023 (THOUSAND UNITS)
Table 50 WIRELESS SENSOR NETWORK MARKET FOR HARDWARE FOR RETAIL, BY REGION, 2015–2023 (USD MILLION)
Table 51 WIRELESS SENSOR NETWORK MARKET FOR AGRICULTURE, BY HARDWARE, 2015–2023 (MILLION UNITS)
Table 52 WIRELESS SENSOR NETWORK MARKET FOR AGRICULTURE, BY CONNECTIVITY TYPE, 2015–2023 (MILLION UNITS)
Table 53 WIRELESS SENSOR NETWORK MARKET FOR AGRICULTURE, BY SENSOR TYPE, 2015–2023 (THOUSAND UNITS)
Table 54 WIRELESS SENSOR NETWORK MARKET FOR HARDWARE FOR AGRICULTURE, BY REGION, 2015–2023 (USD MILLION)
Table 55 WIRELESS SENSOR NETWORK MARKET FOR AEROSPACE & DEFENSE, BY HARDWARE, 2015–2023 (THOUSAND UNITS)
Table 56 WIRELESS SENSOR NETWORK MARKET FOR AEROSPACE & DEFENSE, BY CONNECTIVITY TYPE, 2015–2023 (THOUSAND UNITS)
Table 57 WIRELESS SENSOR NETWORK MARKET FOR AEROSPACE & DEFENSE,

+44 20 8123 2220
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BY SENSOR TYPE, 2015–2023 (THOUSAND UNITS)
Table 58 WIRELESS SENSOR NETWORK MARKET FOR HARDWARE FOR AEROSPACE & DEFENSE, BY REGION, 2015–2023 (USD THOUSAND)
Table 59 WIRELESS SENSOR NETWORK MARKET FOR BFSI, BY HARDWARE, 2015–2023 (THOUSAND UNITS)
Table 60 WIRELESS SENSOR NETWORK MARKET FOR HARDWARE FOR BFSI, BY REGION, 2015–2023 (USD THOUSAND)
Table 61 WIRELESS SENSOR NETWORK MARKET, BY REGION, 2015–2023 (USD MILLION)
Table 62 WIRELESS SENSOR NETWORK MARKET IN NORTH AMERICA, BY COUNTRY, 2015–2023 (USD MILLION)
Table 63 WIRELESS SENSOR NETWORK MARKET IN EUROPE, BY COUNTRY/REGION, 2015–2023 (USD MILLION)
Table 64 WIRELESS SENSOR NETWORK MARKET IN APAC, BY COUNTRY/REGION, 2015–2023 (USD MILLION)
Table 65 WIRELESS SENSOR NETWORK MARKET IN ROW, BY REGION, 2015–2023 (USD MILLION)
Table 66 TEXAS INSTRUMENTS INC. LED THE WIRELESS SENSOR NETWORK MARKET FOR NODES IN 2016
Table 67 INTEL CORPORATION LED THE WIRELESS SENSOR NETWORK MARKET FOR GATEWAYS IN 2016

+44 20 8123 2220
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

Figure 1 WIRELESS SENSOR NETWORK MARKET: RESEARCH DESIGN
Figure 2 PROCESS FLOW OF MARKET SIZE ESTIMATION
Figure 3 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH
Figure 4 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH
Figure 5 MARKET BREAKDOWN AND DATA TRIANGULATION
Figure 6 WIRELESS SENSOR NETWORK MARKET, BY OFFERING, 2016 – 2023
Figure 7 WIRELESS SENSOR NETWORK MARKET, BY SENSORS, 2016 VS 2023
Figure 8 TOP 5 END-USER INDUSTRY IN WIRELESS SENSOR NETWORK MARKET 2016 VS 2023
Figure 9 WIRELESS SENSOR NETWORK MARKET, BY REGION, 2016
Figure 10 WIRELESS SENSOR NETWORK MARKET EXPECTED TO GROW AT A STEADY RATE BETWEEN 2017 AND 2023
Figure 11 BLUETOOTH CONNECTIVITY IC HOLDS THE LARGEST MARKET IN 2016
Figure 12 BUILDING AUTOMATION EXPECTED TO HOLD LARGEST SHARE DURING THE FORECAST PERIOD
Figure 13 BLOOD GLUCOSE SENSOR HELD THE LARGEST SHARE OF THE WIRELESS SENSOR NETWORK MARKET IN 2016
Figure 14 US HELD THE LARGEST SHARE OF THE WIRELESS SENSOR NETWORK MARKET IN 2016
Figure 15 INCREASING DEMAND FOR REMOTE MONITORING AND ADVANCEMENTS IN WIRELESS CONNECTIVITY TECHNOLOGIES TO PROPEL THE GROWTH OF THE WIRELESS SENSOR NETWORK MARKET
Figure 16 GLOBAL WEARABLE TECHNOLOGY MARKET, IN TERMS OF VOLUME, 2014–2022 (MILLION UNITS)
Figure 17 VALUE CHAIN ANALYSIS: WIRELESS SENSOR NETWORK MARKET
Figure 18 WIRELESS SENSOR NETWORK MARKET, BY OFFERING
Figure 19 SOFTWARE TO HOLD THE LARGEST SIZE OF THE WIRELESS SENSOR NETWORK MARKET IN 2017
Figure 20 SENSORS TO HOLD THE LARGEST SIZE OF THE WIRELESS SENSOR NETWORK MARKET, IN TERMS OF VOLUME, DURING THE FORECAST PERIOD
Figure 21 BUILDING AUTOMATION TO HOLD THE LARGEST SIZE OF THE WIRELESS SENSOR NETWORK MARKET FOR PROCESSORS DURING THE FORECAST PERIOD
Figure 22 SOLUTIONS TO DOMINATE THE WIRELESS SENSOR NETWORK MARKET FOR SOFTWARE BETWEEN 2017 AND 2023

+44 20 8123 2220
info@marketpublishers.com

Figure 23 DATA MANAGEMENT TO HOLD THE LARGEST SIZE OF THE WIRELESS SENSOR NETWORK MARKET FOR SOFTWARE SOLUTIONS IN 2017
Figure 24 WIRELESS SENSOR NETWORK MARKET FOR DEPLOYMENT & INTEGRATION SERVICES TO GROW AT FASTER RATE BETWEEN 2017 AND 2023
Figure 25 WIRELESS SENSOR NETWORK, BY SENSOR TYPE
Figure 26 AMBIENT LIGHT SENSORS TO HOLD THE LARGEST SIZE OF THE WIRELESS SENSOR NETWORK MARKET BY 2023
Figure 27 BUILDING AUTOMATION INDUSTRY TO HOLD THE LARGEST SIZE OF THE WIRELESS SENSOR NETWORK MARKET, IN TERMS OF VOLUME, BY 2023
Figure 28 WIRELESS SENSOR NETWORK, BY CONNECTIVITY TYPE
Figure 29 BLUETOOTH TO HOLD THE LARGEST SIZE OF THE WIRELESS SENSOR NETWORK MARKET IN 2017
Figure 30 BUILDING AUTOMATION INDUSTRY TO HOLD THE LARGEST SIZE OF THE WIRELESS SENSOR NETWORK MARKET FOR CONNECTIVITY TYPE BY 2023
Figure 31 WIRELESS SENSOR NETWORK MARKET, BY END-USER INDUSTRY
Figure 32 BUILDING AUTOMATION TO HOLD THE LARGEST SHARE OF THE WIRELESS SENSOR NETWORK MARKET BY 2023
Figure 33 WI-FI TO HOLD THE LARGEST SHARE OF THE WIRELESS SENSOR NETWORK MARKET FOR BUILDING AUTOMATION, IN TERMS OF VOLUME, IN 2017
Figure 34 WIRELESS SENSOR NETWORK MARKET FOR MEMORIES FOR WEARABLE DEVICES TO GROW AT THE HIGHEST CAGR DURING THE FORECAST PERIOD
Figure 35 WIRELESS SENSOR NETWORK MARKET FOR CONNECTIVITY ICS FOR HEALTHCARE INDUSTRY TO GROW AT THE HIGHEST RATE DURING THE FORECAST PERIOD
Figure 36 WIRELESS SENSOR NETWORK MARKET FOR SENSORS FOR AUTOMOTIVE & TRANSPORTATION TO GROW AT THE HIGHEST RATE DURING THE FORECAST PERIOD
Figure 37 TEMPERATURE SENSORS TO HOLD THE LARGEST SIZE, IN TERMS OF VOLUME, OF THE WIRELESS SENSOR NETWORK MARKET FOR SENSORS FOR INDUSTRIAL SECTOR BY 2023
Figure 38 NORTH AMERICA TO BE THE LARGEST MARKET FOR WIRELESS SENSOR NETWORK FOR OIL & GAS BY 2023
Figure 39 MOTION & POSITION SENSORS TO HOLD THE LARGEST SIZE, IN TERMS OF VOLUME, OF THE WIRELESS SENSOR NETWORK MARKET FOR SENSORS FOR RETAIL BY 2023
Figure 40 SOIL MOISTURE SENSORS TO HOLD THE LARGEST SIZE, IN TERMS OF VOLUME, OF THE WIRELESS SENSOR NETWORK MARKET FOR SENSORS FOR

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AGRICULTURE IN 2017
Figure 41 IMU TO HOLD THE LARGEST SIZE, IN TERMS OF VOLUME, OF THE WIRELESS SENSOR NETWORK MARKET FOR SENSORS AEROSPACE & DEFENSE BY 2023
Figure 42 WIRELESS SENSOR NETWORK MARKET, BY REGION
Figure 43 WIRELESS SENSOR NETWORK MARKET IN CHINA TO GROW AT THE HIGHEST CAGR BETWEEN 2017 AND 2023
Figure 44 US HELD THE LARGEST SHARE OF THE WIRELESS SENSOR NETWORK MARKET IN NORTH AMERICA IN 2016
Figure 45 GERMANY HELD THE LARGEST SHARE OF THE WIRELESS SENSOR NETWORK MARKET IN EUROPE IN 2016
Figure 46 WIRELESS SENSOR NETWORK MARKET IN CHINA EXPECTED TO GROW AT A HIGH CAGR BETWEEN 2017 AND 2023
Figure 47 COMPANIES ADOPTED PARTNERSHIPS, AGREEMENTS, EXPANSIONS, & COLLABORATIONS AS KEY GROWTH STRATEGIES BETWEEN 2014 AND 2017
Figure 48 GEOGRAPHIC REVENUE MIX OF MAJOR COMPANIES
Figure 49 INTEL CORPORATION: COMPANY SNAPSHOT
Figure 50 HUAWEI INVESTMENT & HOLDING CO., LTD.: COMPANY SNAPSHOT
Figure 51 TEXAS INSTRUMENTS INC.: COMPANY SNAPSHOT
Figure 52 CISCO SYSTEMS, INC.: COMPANY SNAPSHOT
Figure 53 HEWLETT PACKARD ENTERPRISE CO.: COMPANY SNAPSHOT
Figure 54 NXP SEMICONDUCTORS N.V.: COMPANY SNAPSHOT
Figure 55 STMICROELECTRONICS N.V.: COMPANY SNAPSHOT
Figure 56 TE CONNECTIVITY LTD.: COMPANY SNAPSHOT
Figure 57 ADVANTECH CO., LTD.: COMPANY SNAPSHOT
Figure 58 ABB LTD.: COMPANY SNAPSHOT
Figure 59 HONEYWELL INTERNATIONAL INC.: COMPANY SNAPSHOT
Figure 60 BROADCOM LIMITED: COMPANY SNAPSHOT
Figure 61 ROBERT BOSCH GMBH: COMPANY SNAPSHOT
Figure 62 EUROTECH S.P.A: COMPANY SNAPSHOT
Figure 63 INVENSENSE, INC.: COMPANY SNAPSHOT
Figure 64 INFINEON TECHNOLOGIES AG: COMPANY SNAPSHOT
Figure 65 ANALOG DEVICES, INC.: COMPANY SNAPSHOT
Figure 66 EMERSON ELECTRIC COMPANY: COMPANY SNAPSHOT

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