

Internet of Things (IoT) Market Shares, Strategies, and Forecasts, Worldwide, 2017 to 2023

<https://marketpublishers.com/r/I3EDDA2757BEN.html>

Date: March 2017

Pages: 678

Price: US\$ 4,200.00 (Single User License)

ID: I3EDDA2757BEN

Abstracts

The 2017 study has 678 pages, 240 tables and figures. Worldwide Internet of Things (IoT) markets are poised to achieve significant growth with the use of sensors, cameras, and platforms that are used to help implement precision digital control and send alerts for all manner or management of devices and machinery. Visualization and digitization let people better control any device or mechanical thing.

Providers of Industrial IoT aim to implement asset efficiency solutions. Designing the asset efficiency solution, developing the application, adapting advanced engineering knowledge for the use cases, and supplying the information platform is the composite task of the analytics engine. IBM is a premier supplier of an analytics engine with its Watson product.

There is enormous variety in the Internet of things markets. Bosch supplies industrial IoT sensor technology, acquiring data from the edge, providing device management. Scalability is achieved by the Bosch IoT Suite and ProSyst IoT middleware. The Vorto code generator enables M2M modelling. PTC supplies the Thingworx Application Enablement Platform (AEP), used for creating dashboards, widgets and other user interface elements. Intel provides the Moon Island Gateway used for data aggregation at the edge, as well as horizontal infrastructure in collaboration with HP.

Hitachi analytics is used to diagnose manufacturing process. Hitachi uses its analytics platform to integrate production and sensor data outputs to help visualize, analyze and diagnose a manufacture polymer mixing problems. A polymer mixing process was said to be producing inconsistent output quality, with yields dipping to 50%. Hitachi addressed the scrapping of poor batches and huge costs by addressing ever-changing product specifications and variations in a range of production parameters. Using IoT and the analytics platform, production engineers were able to stabilize the process even as new product formulations were introduced.

The Internet of Things (IoT) is the next Industrial Revolution. It will impact the way all

businesses, governments, and consumers interact with the physical world. 1 Gbps and 10 Gbps speed has been used in data centers for years. The jump to 40 Gbps and 100 Gbps has come rapidly as a result of the need to increase the quantity of data managed inside the data center with more analytics and more applications. Many of the Cloud 2.0 mega data centers have moved to 100 Gbps, presaging the move to 400 Gbps.

One reason for the increase in speed is the growth of data consumption, attributed to smartphones, social media, video streaming, Internet of Things (IoT), and big data. Big pipes are used to cope with the huge quantities of data that are being transferred. Users, partners, suppliers and other mega-datacenters communicate using digital systems that are automated and self-healing. The effect on the business is compelling, managers have much more responsibility to create maps of strategy and work with IT to see that developers tune the software to fit the current competitive environment. The explosion of data comes from smart phone apps and IoT digital onslaught of streaming data that needs to be processed in real time to look for anomalies, look for change, set alerts, and provide automated response to shifts.

“Transparency is one of the benefits of IoT that sensors bring to digital controls. The benefits of digital manufacturing, farming, and automotive vehicles are higher productivity and more efficient use of resource. Transparency in is being asked for by consumers. Consumers want to know where their food came from, how much water and chemicals were used in food preparation, and when and how the food was harvested and transported. They want to know about consistent refrigeration during transport.” Use of IoT sensors and cameras represents a key milestone in provision of value to every industry. Customized cameras are used to take photos and videos with stunning representations. Digital controls will further automate flying and driving, making ease of use, flight stability, and automated cars a reality. New materials and new designs are bringing that transformation forward. By furthering innovation, IoT continued growth is assured.

The worldwide market for Internet of Things (IoT) is \$16.3 billion in 2016 anticipated to reach \$185.9 billion by 2023. Sensors and software analytics platforms are implemented with connectivity capability for streaming data from endpoints and using analytics to process the data in a manner that generates alerts when appropriate. The complete report provides a comprehensive analysis of Internet of Things (IoT) in different categories, illustrating the diversity of uses for digital tracking devices in industry, healthcare and consumer markets. Analytics makes the images more cogent to everyone, farmers, doctors, machine operators, the uses of IoT are quite diverse. Letting people anticipate problems that only become visible to humans days or weeks after the sensors and images detect issues is a fundamental aspect of IoT, along with generating appropriate levels of alerts. Not too many and not too few.

Contents

INTERNET OF THINGS (IOT) EXECUTIVE SUMMARY

Internet of Things (IoT) Market Driving Forces

 IoT Technology Market Driving Forces

 IoT Technology Market Challenges

Internet of Things (IoT) Market Shares

Internet of Things (IoT) Market Forecasts

 IoT Market Opportunity Huge

1. INTERNET OF THINGS (IOT): MARKET DESCRIPTION AND MARKET DYNAMICS

1.1 IoT Sensor Types

 1.1.1 IoT Monitoring Task

1.2 Internet of Things (IoT) Based on Standards

1.3 With IoT, APIs Are Used for Everything

 1.3.1 IoT Use Cases

 1.3.2 Application Integration for Siloed IoT Projects

 1.3.3 Changing IoT Landscape Requires Platform Versatility

 1.3.4 Adaptive Architecture

1.4 Internet of Things Revolution Dramatically Alters the Economy

2. INTERNET OF THINGS (IOT) MARKET SHARES AND FORECASTS

2.1 Internet of Things (IoT) Market Driving Forces

 2.1.1 IoT Technology Market Driving Forces

 2.1.2 IoT Technology Market Challenges

2.2 Internet of Things (IoT) Market Shares

 2.2.1 Amazon Web Services

 2.2.2 IBM Watson IoT

 2.2.3 IBM Blockchain

 2.2.4 Blockchain Networks Will Codify Trust At The Level Of The Individual Transaction

 2.2.5 GE Wireless Sensor Networks

 2.2.6 Microsoft Azure

 2.2.7 Intel Joule

 2.2.8 HPE Universal IoT Platform

- 2.2.9 Cisco
- 2.2.10 Bosch IoT Suite
- 2.2.11 Huawei
- 2.2.12 AT&T
- 2.2.13 Verizon
- 2.2.14 Essence
- 2.3 Internet of Things (IoT) Market Forecasts
 - 2.3.1 IoT Market Opportunity Huge
 - 2.3.2 IoT Application Domain
 - 2.3.3 IoT Unit Forecasts
 - 2.3.4 Internet of Things Market Segments, Installed Base of Devices Reach 1 trillion by 2023
 - 2.3.5 IoT Endpoint Forecasts
 - 2.3.6 Internet of Things End Point Analysis
- 2.4 Internet of Things Market Segments: Security and Energy Management, Healthcare, Transportation and Self Driving Cars, Agriculture and Weather, Financial, Industrial and Manufacturing
- 2.5 Security and Energy Management Internet of Things Market
 - 2.5.1 IoT Security Issues
 - 2.5.1 IoT Security
- 2.6 Healthcare
 - 2.6.1 Wearable Technology
 - 2.6.2 Health care IoT: Reducing Patient Heart Disease Hospital Readmission
- 2.7 Self Driving Cars / Connected Cars / Transportation
 - 2.7.1 Sensor and Computing Configurations for Cars Driving Themselves
 - 2.7.2 Intel Targets Driverless Cars
- 2.8 Agricultural and Weather IoT
 - 2.8.1 Agricultural Internet of Things (IoT)
 - 2.8.2 Agriculture IoT Food Production Increases
 - 2.8.3 Agriculture IoT: Global Shift to Use of Sensors
 - 2.8.4 Agriculture Internet of Things: Venture Investment
 - 2.8.5 Agriculture Internet of Things (IoT) Technology
 - 2.8.6 IoT Crop Water Management
 - 2.8.7 Precision Agriculture
 - 2.8.8 Agricultural Drone Sensors
 - 2.8.9 Integrated Pest Management or Control (IPM/C) –
 - 2.8.10 Food Production and Food Safety
 - 2.8.11 Agriculture IoT Animal Monitoring
 - 2.8.12 Agriculture Internet of Things (IoT) Applications

- 2.8.13 CLAAS IoT Equipment
- 2.9 Industrial IoT
 - 2.9.1 Intelligent Buildings Market
 - 2.9.2 Industrial IoT Key Role in Asset Efficiency
 - 2.9.3 Typical Providers of Industrial IoT Asset Efficiency Solutions
 - 2.9.4 Hitachi Analytics Diagnose Manufacturing
 - 2.9.5 Manufacturing IoT
- 2.10 Financial Internet of Things Market Segment
 - 2.10.1 Google, Amazon, Facebook Banking and Insurance
- 2.11 IoT chipsets
 - 2.11.1 Intel Targets Driverless Cars
 - 2.11.2 Softbank Arm
- 2.12 IoT Data Use Forecasts
 - 2.12.1 IoT ecosystem
 - 2.12.2 Smart Cities Internet of Things (IoT)
 - 2.12.3 M to M
- 2.13 Mid IR Sensor Market Forecasts
 - 2.13.1 Mid IR Sensors Positioned To Provide Wavelength Tunability And High Optical Power
 - 2.13.1 Mid IR Sensors Market Forecasts, Units
 - 2.13.2 Mid IR Sensors: Dollars and Units, High End, Mid Range, and Low End, Shipments, Worldwide, 2016-2022
 - 2.13.3 Mid IR Spectrum Unit Size Categories
 - 2.13.4 IoT Sensor Applications
 - 2.13.5 ECqcl Expressed As A QC Semiconductor Chip
- 2.14 Internet of Things (IoT) Regional Analysis
 - 2.14.1 Washington, D.C. Lab For Internet Of Things
 - 2.14.2 Australia
 - 2.14.3 Brazil
 - 2.14.4 India
 - 2.14.5 India Cotton Infestation
 - 2.14.6 Argentina
 - 2.14.7 Europe's IoT Policy
 - 2.14.8 Spain
 - 2.14.9 Asia-Pacific
 - 2.14.10 China
 - 2.14.11 Vicious Circle Of Constraints Affecting China's Seed Industry
 - 2.14.12 South America
 - 2.14.13 Global IoT Monetization Market: Geographical Evaluation

3. INTERNET OF THINGS IOT PRODUCT DESCRIPTION

3.1 IBM

3.1.1 IBM Global Investment of \$3 billion to Bring Watson Cognitive Computing to IoT

3.1.2 IBM Watson IoT

3.1.3 Partnership Between Visa and IBM Watson for IoT Automated Payments

3.1.4 Schaeffler Transforms its Industrial Business with Watson IOT:

3.1.5 IBM / Schaeffler Partnership Has Focus On Optimizing Maintenance In The Wind Energy Sector

3.1.6 IBM / Schaeffler Digitized Monitoring And Optimization Of Trains:

3.1.7 IBM / Schaeffler Connected Vehicles:

3.1.8 IBM / Schaeffler Industry 4.0 for Tooling Machines:

3.1.9 IBM / Schaeffler Connected Equipment Operations Center:

3.1.10 IBM Watson IoT Used by Aerialtronics:

3.1.11 IBM / Aerialtronics IoT Aviation Crowd Safety:

3.1.12 IBM / Aerialtronics IoT Aviation Damage Assessment:

3.1.13 IBM Watson IoT Thomas Jefferson University Hospital Cognitive Systems:

3.1.14 IBM Watson IoT and Blockchain Services Offerings

3.1.15 IBM Watson IoT Security Solutions and Services

3.1.16 IBM Watson IoT Natural Language Interface:

3.1.17 IBM Watson IoT Cognitive IoT Developer Best Practice:

3.1.18 IBM IoT, Artificial Intelligence (AI), and Unified Messaging

3.1.19 IBM Collaborating with Unified Inbox, Intelligent IoT Messaging Company

3.1.20 IBM IoT Blockchain Distributed Replication

3.1.21 IBM Integrates Watson IoT Platform with Blockchain Transaction Record Creation and Transfer

3.1.22 IBM Supply Chain IoT

3.1.23 Web Transactions Implemented by IBM Blockchain

3.1.24 IBM Blockchain Interactions

3.1.25 IBM Use Cases for IoT and Blockchain

3.1.26 IBM IoT Blockchain Regulatory Compliance

3.1.27 IBM Blockchain Networks Codify Trust At The Level Of The Individual Transaction

3.2 Intel

3.2.1 Intel IoT Gateway Technology

3.2.2 Intel RealSense Camera (R200)

3.3 Microsoft IoT

3.3.1 Microsoft IoT Remote Monitoring

- 3.3.2 Microsoft Internet of Things (IoT)
- 3.3.3 Microsoft Azure IoT Suite
- 3.3.4 Microsoft Azure IoT Hub Fully-Managed Service
- 3.3.5 Microsoft, Corzotech Starter Kits
- 3.4 Hewlett HP IoT
 - 3.4.1 Hewlett Packard Idea Economy
 - 3.4.2 HPE Universal IoT Platform
 - 3.4.3 HPE Universal IoT Platform Communication And Media Solutions
 - 3.4.4 HPE Universal IoT Platform Architecture
 - 3.4.5 HPE IoT Network Interworking Proxy
 - 3.4.6 HPE IoT Data Analytics
 - 3.4.7 HPE IoT Application Studio in DSC
 - 3.4.8 HPE IoT Data Monetization
 - 3.4.9 Hewlett Packard IoT Ford Motor Company
 - 3.4.10 Hewlett Packard and Dubai Police IoT
 - 3.4.11 Hewlett Packard Smart Cities IoT
 - 3.4.12 HPE IAV IoT
- 3.5 Apple
 - 3.5.1 Apple Internet of Things HomeKit Platform
 - 3.5.2 Apple IoT
- 3.6 Google
 - 3.6.1 Google Nest
 - 3.6.2 Google / Nest Protect
 - 3.6.3 Google / Nest Safety History
 - 3.6.4 Google / Nest Learning Thermostat
 - 3.6.5 Google Chromecast
- 3.7 Cisco
 - 3.7.1 Cisco IoT System Digital Transformation
 - 3.7.2 Cisco Bringing Integration, Analytics, And Security to IoT
 - 3.7.3 Cisco Fog Computing Software and Hardware
 - 3.7.4 Cisco IOx
 - 3.7.5 Cisco IoT Fog Applications
 - 3.7.6 Cisco Cloud to Fog
 - 3.7.7 Cisco Fog Delivers Business Outcomes
 - 3.7.8 Cisco Connected Analytics Solutions:
 - 3.7.9 Cisco Potential For Countries To Prosper
- 3.8 Samsung
 - 3.8.1 Samsung Artik Cloud
 - 3.8.2 Samsung Artik Modules Tightly-Integrated

- 3.8.3 Samsung Smart Home Cloud API
- 3.8.4 Samsung Smart Home Cloud API Specification
- 3.8.5 Samsung Hub And Cloud Infrastructure
- 3.8.6 Samsung Partner Apps Feature of S Health
- 3.8.7 Samsung Human-Centered IoT
- 3.8.8 Samsung C-Lab Innovation: Helping Golfers Perfect Their Swings
- 3.8.9 Samsung C-Lab Innovations
- 3.9 AutoDesk
 - 3.9.1 AutoDesk: Manufacturing No Longer About Making Physical Products
 - 3.9.2 Elastic Compute Power Available In The Cloud
- 3.10 Zebra
- 3.11 SAP
 - 3.11.1 SAP IoT and Machine-To-Machine (M2M) Technology
 - 3.11.2 SAP Industrial Internet of Things
 - 3.11.3 SAP Manufacturing: Connecting the Top Floor to the Shop Floor
 - 3.11.4 SAP IoT Solutions by Industry
- 3.12 Siemens
 - 3.12.1 IoT Technical Standards Embraced by Siemens
 - 3.12.2 Siemens IoT for Railroads
 - 3.12.3 Siemens Contends with US Train Budgets
 - 3.12.4 Siemens Intelligent Gateway For Industrial IoT Solutions
 - 3.12.5 Siemens Gateway for Simatic IOT2040 Reliable and Open Platform
 - 3.12.6 Siemens Gateway for Simatic IOT2040 Reliable and Open Platform Retrofitting Capability
 - 3.12.7 Siemens IoT Data: Driver for Industrie 4.0 Scosystem
 - 3.12.8 Siemens Open Cloud: Paving the Way for Smart Data Analytics
- 3.13 Bosch Software Innovation
 - 3.13.1 Bosch IoT Suite
 - 3.13.2 Bosch IoT Suite Supports Innovative Business Models
 - 3.13.3 Bosch IoT Suite Services - Internet of Things Scenarios
 - 3.13.4 Bosch Vision for the Internet of Things (IoT)
 - 3.13.5 Bosch Investment in Production Performance Management Protocol (PPMP)
- 3.14 Huawei Technologies
 - 3.14.1 Huawei Transport Network
- 3.15 Harman International Industries (ADITI Technologies)
 - 3.15.1 Harman IoT Platform Supports Intelligent Navigation
 - 3.15.2 Harman Telematics
 - 3.15.3 Harman Connected Safety Offerings
- 3.16 Enevo Oy Technologies

- 3.16.1 Enevo Oy Technologies Waste Collection Solution
- 3.16.2 Enevo Product Partnership
- 3.17 Infineon Technologies
- 3.18 Symantec Corporation
- 3.19 Schneider Electric Software, Llc.
 - 3.19.1 Schneider Electric Smart Cities
 - 3.19.2 Schneider Electric Asset Management
 - 3.19.3 Schneider Electric Microsoft, Featured Partner
- 3.20 Apple IoT
- 3.21 AT&T
- 3.22 Softbank
 - 3.22.1 SoftBank ARM Acquisition Brings Internet of Things
 - 3.22.2 SoftBank to Roll Out 'LoRaWAN' Low Power Wide Area Network
 - 3.22.3 SoftBank IoT Environment Industry Sectors
 - 3.22.4 SoftBank Builds a LoRaWAN Ecosystem.
 - 3.22.5 Overview of LoRaWAN
 - 3.22.6 SoftBank CEO Masayoshi Son Sees 1 Trillion Devices for Internet of Things
 - 3.22.7 SoftBank Sees Massive MIMO as Key Part of Its 5G Project
- 3.23 Uber
 - 3.23.1 Uber Purchases AI Startup, Creates Machine Learning Lab
- 3.24 oneM2M
 - 3.24.1 IoT to Expand with oneM2M Specifications
 - 3.24.2 Global IoT Standards from oneM2M
- 3.25 Symantec / Norton Core Router
- 3.26 Kaptive
- 3.27 Oracle
- 3.28 Schlage IoT Devices
- 3.29 AGCO
- 3.30 Alibaba Group in Shanghai
- 3.31 Essence

4. INTERNET OF THINGS (IOT) RESEARCH AND TECHNOLOGY

- 4.1 Internet of Things (IoT) Research and Technology
- 4.2 IoT Common Standards
 - 4.2.1 oneM2M Standards Initiative
 - 4.2.2 oneM2M Consists Of Eight Of The World's Preeminent Standards Development Organizations
 - 4.2.3 IoT Standards Ecosystem Growth

- 4.2.4 Unified Communication Standards
- 4.3 Edge Computing
- 4.4 European Union Research & Innovation
 - 4.4.1 IoT Large Scale Pilots (LSPs) for Testing and Deployment
 - 4.4.2 Release 2 from oneM2M.
- 4.5 Wearable Technology
- 4.6 Blockchain
 - 4.6.1 IBM Blockchain Fabric Uses the Linux Foundation Hyperledger Open Source Project
- 4.7 Connected Home Camera Technology
 - 4.7.1 Connected Home Camera Cloud Technology
- 4.8 IFTTT
 - 4.8.1 Wireless Technology
- 4.9 Wireless Communication Standards
 - 4.9.1 Google / Nest / Thread
- 4.10 IBM and Texas Instruments Collaboratively Develop Lifecycle-Management for IoT Devices
 - 4.10.1 IBM and Semtech
 - 4.10.2 Lantronix Python Support For Its Intelligent Device Software Platform

5. INTERNET OF THINGS (IOT) COMPANY PROFILES

- 5.1 Aerialtronics
- 5.2 Adobe
- 5.3 Amazon
 - 5.3.1 Amazon Business
 - 5.3.2 Amazon Competition
 - 5.3.3 Amazon Description
 - 5.3.4 Amazon Revenue
- 5.4 Apple
 - 5.4.1 Apple / AuthenTec
 - 5.4.2 Authentec Revenue Recognition – Smart Sensors
 - 5.4.3 Apple
 - 5.4.4 Apple Business Strategy
 - 5.4.5 Apple Products
 - 5.4.6 Apple iPhone
 - 5.4.7 Apple Mac Hardware Products
 - 5.4.8 Apple iPod
 - 5.4.9 Apple iTunes

- 5.4.10 Apple Mac App Store
- 5.4.11 Apple iCloud
- 5.4.12 Apple Software Products and Computer Technologies
- 5.4.13 Apple Operating System Software iOS
- 5.4.14 Apple Mac OS X
- 5.4.15 Apple Third-Largest Mobile Phone Maker
- 5.4.16 Apple Revenue
- 5.4.17 Apple Revenue
- 5.5 AutoDesk
 - 5.5.1 AutoDesk CAD-in-the-Cloud
- 5.6 Bosch
- 5.7 Cisco Systems
 - 5.7.1 Cisco Business
 - 5.7.2 Cisco Strategy and Focus Areas
 - 5.7.3 Cisco Leverages Market Transitions
 - 5.7.4 Cisco Addresses Digital Transformation
 - 5.7.5 Cisco Software-Defined Networking
 - 5.7.6 Cisco Cloud Strategy
 - 5.7.7 Cisco Switching
 - 5.7.8 Cisco Spark
 - 5.7.9 Cisco Data Center
 - 5.7.10 Cisco UCS Mini Edge Of The Network Solution
 - 5.7.11 Cisco Competition
 - 5.7.12 Cisco Revenue
- 5.8 Digi International
- 5.9 Cybus
- 5.10 Enevo Oy Technologies
- 5.11 Essence
- 5.12 General Electric
 - 5.12.1 GE Revenues
 - 5.12.2 GE Wireless Sensor Networks
 - 5.12.3 GE's XMTC Thermal Conductivity Transmitter
 - 5.12.4 GE's 300 Pressure Series Sensors
 - 5.12.5 GE Applications for Wireless Sensor Networks
- 5.13 Google
 - 5.13.1 Google Revenue
 - 5.13.2 Google
 - 5.13.3 Google Search Technology
 - 5.13.4 Google Recognizes World Is Increasingly Mobile

- 5.13.5 Google Nest
- 5.13.6 Google / Nest Safety History
- 5.13.7 Google / Nest Learning Thermostat
- 5.13.8 Google Chromecast
- 5.14 Health Slam - IoT Slam
- 5.15 Huawei
 - 5.15.1 Huawei 2016 Business
 - 5.15.2 Huawei Smart Devices
 - 5.15.3 Huawei Regional Strengths
 - 5.15.4 Huawei Building Cloud Ecosystem
 - 5.15.5 Huawei Adopting a Product + Service Strategy
 - 5.15.6 Huawei Vision & Mission
 - 5.15.7 Huawei Strategy
 - 5.15.8 Huawei Corporate Governance
 - 5.15.9 Huawei Research & Development
 - 5.15.10 Huawei Cyber Security
 - 5.15.11 Huawei Partners with China Telecom, Shenzhen Gas On Smart Utility
- 5.16 IBM Corporation
 - 5.16.1 IBM IoT Strategy
 - 5.16.2 IBM Cloud Computing
 - 5.16.3 IBM Business Model
 - 5.16.4 IBM
 - 5.16.5 IBM Messaging Extension for Web Application Pattern
 - 5.16.6 IBM MobileFirst
 - 5.16.7 IBM Business Analytics and Optimization Strategy
 - 5.16.8 IBM Growth Market Initiatives
 - 5.16.9 IBM Business Analytics and Optimization
 - 5.16.10 IBM Strategy Addresses Volatility of Information Technology (IT) Systems
 - 5.16.11 IBM Smarter Planet
- 5.17 Infineon Technologies AG
 - 5.17.1 Automotive
 - 5.17.2 Infineon Industrial Power Control
 - 5.17.3 Infineon Power Management & Multimarket
 - 5.17.4 Infineon Chip Card & Security
- 5.18 Intel Corporation
 - 5.18.2 Intel Company Strategy
 - 5.18.3 Intel In The Internet Of Things Market Segment
 - 5.18.4 Intel Competitive Advantages
 - 5.18.5 Intel Acquires Mobileye

5.19 Internet of Things Community

5.20 KT

5.21 Microsoft

5.21.1 Microsoft Revenue

5.22 Microsoft

5.22.1 Microsoft / Mojang AB Minecraft

5.22.2 Microsoft Reportable Segments

5.22.3 Microsoft Revenue by Segment

5.22.4 Skype and Microsoft

5.22.5 Microsoft / Skype / GroupMe Free Group Messaging

5.22.6 Microsoft SOA

5.22.7 Microsoft .Net Open Source

5.22.8 Microsoft Revenue

5.23 MuleSoft

5.24 Nokia

5.24.1 Nokia IMPACT IoT Platform

5.25 oneM2M

5.26 Panoramic Power

5.26.1 Panoramic Power's Wireless, Self-Powered Snap & Play Sensors

5.26.2 Panoramic Power Bridge

5.27 Oracle

5.28 PTC

5.29 Qualcomm

5.29.1 Qualcomm Standards and Industry Organizations Group

5.30 Samsung

5.30.1 Samsung Finds Talent And Adapts Technology To Create Products

5.30.2 Samsung Adapts to Change, Samsung Embraces Integrity

5.30.3 Samsung Telecom Equipment Group

5.30.4 Samsung Memory Over Logic

5.30.5 Samsung Agreed to Buy Harman

5.30.6 Harman International Industries (ADITI TECHNOLOGIES)

5.31 SAP

5.31.1 SAP Easier IoT Adoption:

5.32 Schaeffler

5.33 Sierra Wireless Business and Innovation Development

5.33.1 Sierra Wireless Modules

5.34 Sigfox

5.34.1 Sigfox Secures New Funding, Eyes Rapid Network Expansion

5.35 Softbank

- 5.35.1 SoftBank Segments
- 5.35.2 Softbank Personal Brain “IBM Watson”
- 5.35.3 Softbank Sprint Segment
- 5.35.4 Softbank Yahoo Japan Segment
- 5.35.5 Softbank E-Commerce Business
- 5.35.6 Softbank Distribution Segment
- 5.35.7 Fukuoka SoftBank HAWKS Related Business and Other Businesses
- 5.35.8 SoftBank ARM Acquisition Brings Internet of Things
- 5.36 Spirent
 - 5.36.1 Spirent Wireless & Positioning
 - 5.36.2 Spirent Service Assurance
- 5.37 STMicroelectronics
- 5.38 Symantec
 - 5.38.1 Symantec / Norton
 - 5.38.2 Norton Data-Driven Intelligence Network
 - 5.38.3 Symantec / NortonHoneypots and Decoys
 - 5.38.4 Symantec Security in Information-Driven World
 - 5.38.5 Symantec Core Business Positioned for Growth
 - 5.38.6 Symantec Acquires VeriSign Security Business
 - 5.38.7 VeriSign Check Mark Signifying Trust Online
 - 5.38.8 Symantec Creating Trusted Interactions Online
- 5.39 Schneider Electric Software, Llc.
- 5.40 Uber
- 5.41 UIB
- 5.42 Zebra
 - 5.42.1 NFL And Zebra Technologies Expand On Third Year Of Game-Changing Partnership
 - 5.42.2 Zebra Instrumented Football
 - 5.42.3 Zebra Regional Analysis
- 5.43 ZTE
 - 5.43.1 ZTE Demonstrates Smart NB-IoT solutions
- 5.44 Appendix A: Selected IoT Market Participants
 - 5.44.1 Internet of Things Companies 2016
 - 5.44.2 Amazon Web Services
 - 5.44.3 AT&T
 - 5.44.4 Axeda
 - 5.44.5 Cisco
 - 5.44.6 Facebook
 - 5.44.7 General Electric

- 5.44.8 Google
- 5.44.9 HP
- 5.44.10 HP / Aruba Networks
- 5.44.11 IBM
- 5.44.12 Intel
- 5.44.13 Microsoft
- 5.44.14 oneM2M
- 5.44.15 Oracle
- 5.44.16 SAP
- 5.44.17 Salesforce.com
- 5.44.18 Qualcomm
- 5.44.19 Cleangrow's Carbon Nanotube Probe
- 5.44.20 Temputech Wireless Sensor Monitoring –
- 5.44.21 India Cotton Infestation
- 5.44.22 IoT Speakers
- 5.44.23 More IoT Companies
- 5.44.24 IoT Startups
- 5.45 Construction Automation
- 5.46 Selected IoT and IoT Wireless Sensor Networking Companies
- WinterGreen Research,
- WinterGreen Research Research Methodology
- List of Figures
- Figure 1. Internet of Things (IoT) Market Driving Forces
- Figure 2. Key Areas Of The IoT Market
- Figure 3. IoT Technology Market Driving Forces
- Figure 4. IoT Technology Market Challenges
- Figure 5. Internet of Things (IoT) Market Shares, Dollars, 2016
- Figure 6. Internet of Things (IoT) Market Forecast, Dollars, Worldwide, 2017-2024
- Figure 7. IoT Sensor Types
- Figure 8. SAP Digital Machine-To-Machine (M2M) Technology
- Figure 9. Cardiac Signal Segment
- Figure 10. Internet of Things: API Use Case Focus
- Figure 11. IoT Ecosystem Collaborations
- Figure 12. IoT Platform Use Case Requirements
- Figure 13. Changing IoT Landscape Requires Platform Versatility
- Figure 14. IoT Community issues.
- Figure 15. IoT Use Cases:
- Figure 16. STMicroelectronics Internet of Things (IoT) Portfolio Of Building Blocks
- Figure 17. STMicroelectronics Internet of Things (IoT) Wearables and Smart Home

Applications

Figure 18. STMicroelectronics Internet of Things (IoT) Portfolio Of Applications

Figure 19. Internet of Things (IoT) Market Driving Forces

Figure 20. Key Areas Of The IoT Market

Figure 21. IoT Technology Market Driving Forces

Figure 22. IoT Technology Market Challenges

Figure 23. Internet of Things (IoT) Market Shares, Dollars, 2016

Figure 24. Internet of Things Market Shares Dollars, Worldwide, 2016

Figure 25. Intel IoT Watchdog Timer Can Help With Recovery

Figure 26. Essence: IoT Technology as Extension of Human Activity

Figure 27. Internet of Things (IoT) Market Forecast, Dollars, Worldwide, 2017-2024

Figure 28. Internet of Things Market Forecasts, Worldwide, 2017-2023

Figure 29. Characterizing IoT Solutions

Figure 30. IoT Smart Device Functions

Figure 31. Smart Phone Can Control More And More Devices

Figure 32. IoT Application Domains

Figure 33. Internet of Things (IoT) Market Forecast, Units, Worldwide, 2017-2024

Figure 34. Internet of Things Market Segments, Financial and Industrial and Web Wireless Apps, Dollars, Forecast, Worldwide, 2017-2023

Figure 35. Internet of Things Market Segments, Financial and Industrial and Web Wireless Apps, Units, Forecast, Worldwide, 2017-2023

Figure 36. Internet of Things Market Segments, Percent, Forecast, Worldwide, 2017-2023

Figure 37. Internet of Things Market Segments, Installed Base of Devices, Units, Forecast, Worldwide, 2017-2023

Figure 38. Internet of Things Market Segments, Security and Energy Management, Healthcare, Transportation and Self Driving Cars, Agriculture and Weather, Financial, Industrial and Manufacturing, Dollars, Forecast, Worldwide, 2017-2023

Figure 39. Internet of Things Market Segments, Security and Energy Management, Healthcare, Transportation and Self Driving Cars, Agriculture and Weather, Financial, Industrial and Manufacturing, Percent, Forecast, Worldwide, 2017-2023

Figure 40. Internet of Things Market Segment Analysis, Dollars, Worldwide, 2016 and 2023

Figure 41. Security and Energy Management Internet of Things (IoT) Market Forecast, Dollars, Worldwide, 2017-2024

Figure 42. Security and Energy Management, Internet of Things Market Segment, Dollars, Forecast, Worldwide, 2017-2023

Figure 43. Healthcare Internet of Things (IoT) Market Forecast, Dollars, Worldwide, 2017-2024

- Figure 44. Healthcare, Internet of Things Market Segments, Dollars, Forecast, Worldwide, 2017-2023
- Figure 45. Transportation and Self Driving Cars Internet of Things (IoT) Market Forecast, Dollars, Worldwide, 2017-2024
- Figure 46. Transportation and Self Driving Cars Internet of Things Market, Internet of Things Market Segments, Transportation and Self Driving Cars, Dollars, Forecast, Worldwide, 2017-2023
- Figure 47. Sensor and Computing Configurations for Cars Driving Themselves
- Figure 48. Agriculture and Weather Internet of Things (IoT) Market Forecasts, Dollars, Worldwide, 2017-2024
- Figure 49. Agriculture and Weather, Internet of Things Market Segments, Dollars, Forecast, Worldwide, 2017-2023
- Figure 50. Two Billion Sensors Used In Farms Globally by End of Forecast Period
- Figure 51. Agriculture Internet of Things: Venture Investment
- Figure 52. Agricultural Sector The Technological Development of Internet of Things
- Figure 53. Drone Low Altitude Tracking and Avoidance Systems
- Figure 54. IoT Integrated Pest Management or Control
- Figure 55. Pest Management & Control Fundamental Modules –
- Figure 56. IoT Apple Sensing
- Figure 57. Phenonet Project by Open IoT Performance Goals
- Figure 58. CLAAS IoT Equipment
- Figure 59. Industrial and Manufacturing Internet of Things (IoT) Market Forecast, Dollars, Worldwide, 2017-2024
- Figure 60. Industrial and Manufacturing, Internet of Things Market Segment, Dollars, Forecast, Worldwide, 2017-2023
- Figure 61. Hitachi Analytics Platform Integrates Production And Sensor Data Outputs In A Polymer Mixing Process
- Figure 62. Financial Internet of Things (IoT) Market Forecast, Dollars, Worldwide, 2017-2024
- Figure 63. Financial Internet of Things Market Segment, Dollars, Forecast, Worldwide, 2017-2023
- Figure 64. Redtone Smart City Solutions
- Figure 65. Redtone Smart City Worldwide Addressable Market:
- Figure 66. Mid Infrared (IR) Sensor Shipments, Market Forecasts, Dollars, Worldwide, 2016-2022
- Figure 67. Mid IR Sensor Total Market Dollars, Worldwide, 2016-2022
- Figure 68. Mid IR Sensor Market Forecasts, Units, Worldwide, 2016-2022
- Figure 69. Mid IR Sensor Market Forecasts, Units, Worldwide, 2016-2022
- Figure 70. Mid IR Sensors: Dollars And Units, High End, Mid-Range, And Low End,

Shipments, Worldwide, 2016-2022

Figure 71. Mid IR Sensor Market Forecasts, High End, Mid-Range, And Low End Units, Worldwide, 2016-2022

Figure 72. Applications for Mid IR Sensors

Figure 73. Mid IR Sensor Applications Market Segments, Dollars, Worldwide, 2016-2022

Figure 74. Internet of Things Regional Market Segments, Dollars, 2016

Figure 75. Internet of Things (IoT) Regional Market Segments, Dollars, Worldwide, 2016

Figure 76. Digitizing European Industry Policy Initiatives:

Figure 77. IBM Global Headquarters for Watson IoT in Germany

Figure 78. IBM Watson IoT Sensor Locations

Figure 79. IBM IoT Technological Transformation

Figure 80. Connected Payments Product Categories

Figure 81. Aerialtronics Drone Inspection Data

Figure 82. Aerialtronics Drone Inspects Cell Tower Streams Images and Data

Figure 83. IBM Watson Internet of Things / Aerialtronics Commercial Drones

Figure 84. IBM IoT Topics

Figure 85. IBM Blockchain

Figure 86. IBM Flow Integration of Watson IoT Platform Implements Blockchain

Figure 87. IBM Supply Chain IoT Continuous Container Tracking

Figure 88. Web Transactions Implemented by IBM Blockchain

Figure 89. A Distributed IoT Shared Ledger Built On IBM Blockchain Offers Visibility, Trust, And Permanence

Figure 90. A Shared Ledger Built on Blockchain Offers Visibility, Trust, and Permanence

Figure 91. Blockchain Attributes Framework:

Figure 92. IBM Blockchain Interactions

Figure 93. IBM Use Cases for IoT and Blockchain

Figure 94. Selected IBM Blockchain Clients

Figure 95. IBM Blockchain Offerings

Figure 96. Intel Joule Module

Figure 97. Intel IoT Watchdog Timer Can Help With Recovery

Figure 98. Intel IoT External Watchdog Timer

Figure 99. Intel IoT Gateway Technology—Turn Data into Action: Video

Figure 100. Intel RealSense Camera (R200)

Figure 101. Microsoft Azure IoT Suite

Figure 102. Microsoft Azure IOT Suite Functions

Figure 103. Microsoft IoT Predictive Maintenance Functions

Figure 104. Microsoft Protecting IoT Solutions Issues

Figure 105. Microsoft Azure Primary Security Areas

Figure 106. Azure IoT Suite

Figure 107. HPE Universal IoT Platform Benefits:

Figure 108. HPE IoT Monetization

Figure 109. Hewlett Packard IoT DS Virgin Racing Team Electric Car Efficiency

Figure 110. Hewlett Packard IoT Ford Motor Big Data, Cloud, and Security

Figure 111. Apple IoT Control Accessories in the Home: Security Systems, Appliances, Cameras And Door Locks.

Figure 112. Apple Aggregation of Devices to Be Controlled Using Scene System²⁴³

Figure 113. Schneider Electric Smart City Carson City Initiative

Figure 114. Google / Nest Learning Thermostat

Figure 115. Cisco IoT System Modules

Figure 116. Cisco IoT System Industry Sectors

Figure 117. Cisco IoT System Functions

Figure 118. Cisco IOx Features

Figure 119. Cisco IoT Analytics Infrastructure Functions:

Figure 120. Cisco Connected Streaming Analytics (CSA) Platform Features

Figure 121. Cisco Connected Streaming Analytics (CSA) Platform Functions

Figure 122. Cisco Connected Streaming Analytics Functions

Figure 123. Cisco Addresses Why Streaming Analytics Matter

Figure 124. Streaming Analytics Uses Within Enterprise Organization

Figure 125. Cisco Benefits of Connected Streaming Analytics

Figure 126. Cisco Country Digitization

Figure 127. Samsung SmartThings

Figure 128. Samsung Smart Home devices

Figure 129. Steps to integrate the Partner Cloud and Smart Home Cloud

Figure 130. Samsung Digital Health Service

Figure 131. Samsung IOFIT Smart Shoes

Figure 132. Samsung IOFIT Application

Figure 133. Samsung SHNL

Figure 134. Smart Wearable Healthcare Belt WELT

Figure 135. Samsung Home Security

Figure 136. Samsung Home Security Featured Products

Figure 137. AutoDesk: Manufacturing Eschews Making Physical Products

Figure 138. SAP Industrial Internet of Things

Figure 139. SAP Shop Floor IoT

Figure 140. SAP IoT Industries Targeted

Figure 141. SAP Business Intelligence

Figure 142. SAP IoT Positioning

Figure 143. SAP IoT Governance, Risk, and Compliance Management

- Figure 144. SAP Predictive Analytics Benefits
- Figure 145. SAP Predictive Modeling Functions
- Figure 146. SAP Value of IoT Scoring
- Figure 147. Power of Predictive Analytics with SAP Hana
- Figure 148. The Power of Predictive Analytics with SAP HANA
- Figure 149. SAP Internet Of Things (IOT) Product Categories
- Figure 150. Siemens Perspective of Billions of Things, Trillions of Dollars
- Figure 151. Siemens Intelligent Gateway
- Figure 152. Siemens Gateway for Simatic IOT2040 Functions
- Figure 153. Siemens Gateway for Simatic IOT2040 Reliable and Open Platform309
- Figure 154. Siemens SIMATIC IOT2000 Interface to the ERP System and Communication of Automation Components
- Figure 155. Cooperation Of Siemens With SAP To Create Open Cloud Platform Functions
- Figure 156. Bosch IoT Suite Comprehensive Components
- Figure 157. Software Services of the Bosch IoT Suite
- Figure 158. Bosch IoT Suite Connecting Five Million Devices And Machines
- Figure 159. Bosch IoT Suite Services
- Figure 160. Bosch IoT Suite Device Connection Features
- Figure 161. Bosch IoT Suite Device Connection Functions
- Figure 162. Bosch IoT Global System Integrator Partnerships
- Figure 163. Bosch IoT Technology Partners:
- Figure 164. Bosch IoT Memberships
- Figure 165. Bosch IoT Joint Research Ventures
- Figure 166. Bosch Metrics for Optimization of Information from Machines and Devices
- Figure 167. Bosch Guidelines for a One-Way Exchange of Information To Address Machine Messages And Measurements
- Figure 168. Bosch IoT Project: Eclipse Unide Sensors Monitor Temperature, Vibration, Energy Consumption, and Wear
- Figure 169. Huawei Technologies IoT Features
- Figure 170. Huawei IoT Services Orchestration Functions:
- Figure 171. Huawei Addresses Differentiated IoT Requirements
- Figure 172. Huawei Addresses Differentiated IoT Functions
- Figure 173. Huawei IoT Authentication Protocols
- Figure 174. Huawei IoT Application & Benefits
- Figure 175. Harman Embedded Infotainment Solutions Features
- Figure 176. Symantec IoT Industries Targeted
- Figure 177. AT&T IoT Control Center IoT Information Interconnection Management Features

- Figure 178. ATT IoT Controller Center
- Figure 179. ATT IoT Platform Functions
- Figure 180. ATT M2X Benefits
- Figure 181. ATT IoT Libraries and Devices
- Figure 182. AT&T M2X Features
- Figure 183. AT&T M2X Management Features
- Figure 184. AT&T M2X Modules
- Figure 185. AT&T IoT Services Help Maximize Uptime In The Manufacturing Industry
- Figure 186. SoftBank IoT Environment Industry Sectors
- Figure 187. Softbank LPWA Network Usage Examples
- Figure 188. Softbank LoRa Alliance Solutions Definitions
- Figure 189. SoftBank Partners for the LoRaWAN Network Deployment:
- Figure 190. Norton Core Router
- Figure 191. Kaptive Electronic White Borad Features
- Figure 192. Kaptive Key Benefits:
- Figure 193. Kaptive Key Features:
- Figure 194. Kaptive Functions:
- Figure 195. Essence Seamless Integration of Things and Lifestyle
- Figure 196. IoT Chip Manufacturers Technology Suppliers
- Figure 197. oneM2M Eight Of The World's Preeminent Standards Development Organizations
- Figure 198. oneM2M Industry Fora Or Consortia
- Figure 199. Unified Communication Standards
- Figure 200. Wearable Technology Applications
- Figure 201. Connected Home Camera Cloud Technology Features
- Figure 202. Wireless Communication Standards
- Figure 203. Thread Group Members Working To Develop An Ip-Based Wireless Networking Protocol For Connected-Home Products
- Figure 204. Amazon Principal Competitive Factors In The Online Retail Business
- Figure 205. Amazon Improving Customer Experience Functions
- Figure 206. Amazon Ways To Achieve Efficiency In Technology For Operations415
- Figure 207. Cisco Technology Foundation For Digital Transformation
- Figure 208. Cisco Unified Computing System Portfolio Of Solutions Functions
- Figure 209. Essence Partners
- Figure 210. Essence IoT End-to-End Solutions
- Figure 211. Essence IoT Smart Home Digital Offerings
- Figure 212. Essence Multi-service IoT Platform Functions
- Figure 213. Essence Security for Home and Going Beyond Security Features
- Figure 214. Essence Home IoT Positioning

- Figure 215. GE Operating Segments
- Figure 216. GE Wireless Sensor Networks
- Figure 217. GE Sensor Networks
- Figure 218. Google / Nest Protect
- Figure 219. Google / Nest Learning Thermostat
- Figure 220. Internet of Things Community Functions
- Figure 221. Microsoft Productivity and Business Processes Segment
- Figure 222. Microsoft Intelligent Cloud Segment
- Figure 223. Microsoft / Skype / GroupMe Free Group Messaging
- Figure 224. Microsoft Service Orientated Architecture SOA Functions
- Figure 225. oneM2M Use Cases And Requirements For A Common Set of Service Layer Capabilities;
- Figure 226. Deploying Panoramic Power's Data Collection Sensors
- Figure 227. Panoramic Power Wireless Device Features
- Figure 228. Oracle IoT Positioning
- Figure 229. Softbank Brightstar Specialized Wireless Industry Wholesaler Functions
- Figure 230. STMicroelectronics Internet of Things (IoT) Portfolio Of Building Blocks
- Figure 231. STMicroelectronics Internet of Things (IoT) Wearables and Smart Home Applications
- Figure 232. STMicroelectronics Internet of Things (IoT) Portfolio Of Applications
- Figure 233. Symantec / Norton Internet Security Image
- Figure 234. Symantec Creating Trusted Interactions Online
- Figure 235. Schneider Electric industrial software Solutions Functions
- Figure 236. Zebra Application of IoT in Healthcare
- Figure 237. Zebra IoT Healthcare Areas of Expertise
- Figure 238. Zebra National Football League (NFL) IoT RFID Tag Functions
- Figure 239. Zebra Global Market Presence
- Figure 240. oneM2M Consists Of Eight Of The World's Preeminent ICT Standards Development Organizations

I would like to order

Product name: Internet of Things (IoT) Market Shares, Strategies, and Forecasts, Worldwide, 2017 to 2023

Product link: <https://marketpublishers.com/r/I3EDDA2757BEN.html>

Price: US\$ 4,200.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/I3EDDA2757BEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

