Connected Home and Smart Appliances 2016 - 2021

Description: Connected Home is an extension of home automation and operates in conjunction with the Internet of Things (IoT) wherein devices inside the home are connected to each other via the Internet and/or via a short-range wireless mesh network and are typically operated using remote access device such as smartphone, tablet or any other mobile computing unit.

Smart appliances rely upon various communications technologies including Wi-Fi, ZigBee, Z-Wave, Bluetooth, and NFC, as well as IoT and related operating systems for consumer command and control such as iOS, Android, Azure, Tizen. Implementation and operation is becoming increasingly easy for end-users, facilitating rapid growth in the Do-it-Yourself (DIY) segment.

This research evaluates the market for the Internet of Things (IoT) in Connected Homes and includes evaluation of market drivers, companies, solutions, and forecast 2015 to 2020. This research also evaluates the Smart Appliance marketplace including technologies, companies, solutions, products, and services. The report includes analysis of leading companies and their strategies and offerings. The report also provides extensive market projections with forecasts covering the period 2016 to 2021.

Target Audience:
- Smartgrid integrators
- Smart appliance companies
- Semiconductor manufacturers
- Embedded systems companies
- Systems integration companies
- Wireless device manufacturers
- Connected Home service providers

Contents: Connected Home and IoT: Market Opportunities and Forecasts 2016 - 2021

1 Introduction
1.1 Scope of the Research
1.2 Target Audience
1.3 Companies in Report
2 Executive Summary
3 Overview
3.1 Market Definition
3.2 Creating Connected Home
3.3 Connected Home Fundamentals
3.4 "Smart" Products in the Connected Home and the Role of IoT
3.5 Connected Home System Elements
3.5.1 Network and Network Protocols
3.5.1.1 Wireless Mesh Network
3.5.1.2 IoT Wireless Protocols
3.6 Business Growth Challenges 2016 - 2021
3.6.1 The Need for Privacy and Individual Preference Control
3.6.2 Device Interoperability for Different Brands Remains a Challenge
3.6.3 Lack of Technical Knowledge
3.6.4 Addressing Diversified Customer Needs
3.6.5 Existing non IoT Compliant Devices in the Home
3.7 Benefits of Connected Home
4 Global Connected Home Market: 2016 - 2021
4.1 Global Markets Connected Home IoT Solutions 2016 - 2021
4.2 Regional Markets for Connected Homes IoT Solutions 2016 - 2021
4.2.1 Anticipating 364 Million Connected Homes by 2021
5 Hardware and Software Components 2016 - 2021
5.1 Emerging Connected Home Business Opportunities 2016 - 2021
5.2 Significant Business Opportunities for Cloud Service Providers and Big Data Analytics
6 Global Connected Home Market by End User Segments
   6.1 Regional Markets for Connected Home Entertainment 2016 - 2021
   6.2 Regional Markets for Connected Home Security and Monitoring 2016 - 2021
   6.3 Regional Markets for Connected Home Energy Conservation 2016 - 2021
   6.4 Regional Markets for Connected Home Utility Monitoring 2016 - 2021
7 Leading Companies, Organizations, and Solutions
   7.1 Amdocs
   7.1.1 Amdocs Connected Home Solutions
   7.2 Apple Inc.
   7.3 ARM Holdings
   7.4 Arrayent Inc.
   7.5 Axiros
   7.6 Blue Clover Devices
   7.7 British Gas
   7.8 Crestron Electronics Inc.
   7.9 Entropic MaxLinear
   7.10 Essence Group
   7.11 General Electric (GE)
   7.12 Hewlett-Packard (HP)
   7.13 Honeywell
   7.14 Icontrol network
   7.15 Jasper (Cisco)
   7.16 LG Electronics
   7.17 Leviton Manufacturing Co., Inc.
   7.18 Marvell
   7.19 Nest Labs.
   7.20 Netgear
   7.21 Netgem
   7.22 Oregan Networks Ltd.
   7.23 Proto Homes
   7.24 Qualcomm
   7.25 Samsung Electronics
   7.26 SmartThings
   7.27 Technicolor
   7.28 Whirlpool
   7.29 Wink
   7.30 Industry Alliances for IoT solutions for Connected Home
   7.30.1 ZigBee Alliance
   7.30.2 Z-Wave Alliance
   7.30.3 Insteon
   7.30.4 Digital Living Network Alliance (DLNA)
   7.30.5 Thread 92
   7.31 ALLSEEN Alliance
8 Appendix: IoT Standardization
   8.1 Network Layer Standards
   8.2 Application Layer Standards
   8.3 IoT Operating Systems and APIs

Figures
Figure 1: Connected Home Ecosystem
Figure 2: Connected Home Residential Gateway
Figure 3: Global Markets for IoT Solutions for Connected Homes: 2016 - 2021
Figure 4: Global Markets for IoT solutions for Connected Homes 2016 - 2021
Figure 5: Market for Connected Home by Region 2016 - 2021
Figure 6: Global Number of Connected Homes: 2016 - 2021
Figure 7: Connected Home Vendor Ecosystem
Figure 8: Markets for H/W and S/W IoT Solutions in Connected Homes 2016 - 2021
Figure 9: Revenue for Software and Services 2016 - 2021
Figure 10: Markets for Connected Home by Segment
Figure 11: Market for Connected Home Entertainment by Region 2016 - 2021
Figure 12: Connected Home Security & Monitoring Solutions by Region 2016 - 2021
Figure 13: Connected Home Energy Conservation Devices by Region 2016 - 2021
Figure 14: Connected Home Utility Monitoring Devices Market by Region 2016 - 2021

Tables
Table 1: Global Markets for IoT solutions for Connected Homes 2016 - 2021
Table 2: Markets for Connected Home by Region 2016 - 2021
Table 3: Global Number of Connected Homes 2016 - 2021
Table 4: Markets for H/W and S/W IoT Solutions in Connected Homes 2016 - 2021
Table 5: Revenue for Software and Services 2016 - 2021
Table 6: Markets for Connected Home by End User Segment 2016 - 2021
Table 7: Market for Connected Home Entertainment by Region 2016 - 2021
Table 8: Connected Home Security and Monitoring Market by Region 2016 - 2021
Table 9: Connected Home Energy Conservation Devices Market by Region 2016 - 2021
Table 10: Connected Utility Monitoring Devices Market by Region 2016 - 2021

Smart Appliance Technology Analysis and Market Forecast 2016 - 2021

1.0 Introduction
1.1 Executive Summary
1.2 Research Objectives
1.3 Questions Answered
1.4 Research Methodology
1.5 Target Audience
1.6 Companies In Report
2.0 Smart Appliances Market Overview
2.1 Smart Appliance Characteristics
2.2 Market Definition Of Smart Appliances
2.3 Role Of Smart Grid Integrators
2.4 Role Of Utilities
2.5 Smart Appliance Application Paradigm
2.6 Smart Appliance Value Chain Analysis
2.7 Designing Smart Appliance Experience
2.8 Context Aware Smart Automation
2.9 Smart Appliances Data Analytics
2.10 Fitting Into Larger Ecosystem
2.11 Smart Collaboration
2.12 Companion Experience
2.13 Smart Appliance Benefits
2.14 DIY Case Study
3.0 Smart Appliance Market Forces And Driver Analysis
3.1 Energy Consumption Increase
3.2 Mobile Application User
3.3 Global Housing Market And Economic Factors
3.4 Global Climate And Energy Consumption
3.5 Dynamic Pricing
3.6 Digital Consumerization And Lifestyle
3.7 High Capital Investment
3.8 Demand Vs. Supply Factors
3.9 Rival Threat
3.10 Smart City Growth
3.11 Artificial Intelligence
3.12 Waste Reduction
3.13 Safety Inside Home
3.14 Home Security And Do-It-Yourself Trend
3.15 Healthcare
3.16 Energy Efficiency
3.17 Smart Grid Adoption
3.18 Government Subsidy
3.19 Utility Bill
4.0 Smart Appliance Market Analysis & Forecast 2016 - 2021
4.1 Revenue Analysis
4.2 Unit Installation Analysis
4.3 User Analysis
4.4 Product Analysis
4.4.1 Smart Home Appliance Segment
4.4.2 Kitchen Appliance Segment
4.4.3 Smart Office Appliance Segment
4.5 Technology Analysis
4.6 Analysis By Region
4.6.1 North America
4.6.2 Asia Pacific (Apac)
4.6.3 Europe
4.6.4 Latin America
4.6.5 Middle East
4.6.6 Africa
4.7 Analysis By Country
5.0 Smart Appliance Companies, Products, And Services
5.1 General Electric
5.1.1 Overview
5.1.2 Products And Offerings
5.2 Lg Electronics
5.2.1 Overview
5.2.2 Products And Offerings
5.3 Panasonic Corporation
5.3.1 Overview
5.3.2 Products And Offerings
5.4 Samsung Electronics
5.4.1 Overview
5.4.2 Products And Offerings
5.5 Whirlpool Corporation
5.5.1 Overview
5.5.2 Products And Offerings
5.6 Electrolux
5.6.1 Overview
5.6.2 Products And Offerings
5.7 Philips
5.7.1 Overview
5.7.2 Products And Offerings
5.8 Bosch Hausgerate Gmbh
5.8.1 Overview
5.8.2 Products And Offerings
5.9 Haier
5.9.1 Overview
5.9.2 Products And Offerings
5.10 Miele
5.10.1 Overview
5.10.2 Products And Offerings
5.11 Indesit
5.11.1 Overview
5.11.2 Products And Offerings
6.0 Conclusions And Recommendations
6.1 Recommendations For Appliance Manufacturers
6.2 Recommendations For Technology And Service Providers
6.3 Recommendations For Regulators
6.4 Recommendation For Distributors Or Retailers

Figures
Figure 1: Connected Ecosystem for Smart Appliances
Figure 2: Oven Control UI of Brillion App
Figure 3: Smart Washer and Dryer Supporting Nest
Figure 4: Global Smart Appliance Revenue 2016 - 2021
Figure 5: DIY Smart Appliance Market Size 2016 - 2021
Figure 6: Average Revenue per Unit Smart Appliance 2016 - 2021
Figure 7: Global Smart Appliances Unit Shipments 2016 - 2021

Tables
Table 1: Smart Appliance Revenue by Value Chain Partners 2016 - 2021
Table 2: Global Smart Appliances Installed Base 2016 - 2021
Table 3: Smart Appliance Revenue by Types of Users 2016 - 2021
Table 4: Smart Appliance Installed Base by Types of Users 2016 - 2021
Table 5: Global Smart Appliance Revenue by Segment 2016 - 2021
Table 6: Global Smart Appliance Installed Base by Segment 2016 - 2021
Table 7: Smart Home Appliance Revenue by Product 2016 - 2021
Table 8: Smart Home Appliance Installed Base by Product 2016 - 2021
Table 9: Smart Kitchen Appliance Revenue by Product 2016 - 2021
Table 10: Smart Kitchen Appliance Installed Base by Product Million 2016 - 2021
Table 11: Smart Office Appliance Revenue by Product 2016 - 2021
Table 12: Smart Appliance Revenue by Technology Application 2016 - 2021
Table 13: Smart Appliance Installed Base by Technology Application 2016 - 2021
Table 14: Smart Appliance Revenue by Region 2016 - 2021
Table 15: Smart Appliance Installed Base by Region 2016 - 2021
Table 16: North America Smart Appliance Revenue by Segment 2016 - 2021
Table 17: North America Smart Appliance Installed Base by Segment 2016 - 2021
Table 18: APAC Smart Appliance Revenue by Segment 2016 - 2021
Table 19: APAC Smart Appliance Installed Base by Segment 2016 - 2021
Table 20: Europe Smart Appliance Revenue by Segment 2016 - 2021
Table 21: Europe Smart Appliance Installed Base by Segment 2016 - 2021
Table 22: Latin America Smart Appliance Revenue by Segment 2016 - 2021
Table 23: Latin America Smart Appliance Installed Base by Segment 2016 - 2021
Table 24: Middle East Smart Appliance Revenue by Segment 2016 - 2021
Table 25: Middle East Smart Appliance Installed Base by Segment 2016 - 2021
Table 26: Africa Smart Appliance Revenue by Segment 2016 - 2021
Table 27: Africa Smart Appliance Installed Base by Segment 2016 - 2021
Table 28: Smart Appliance Revenue by Country 2016 - 2021
Table 29: Smart Appliance Installed Base by Country 2016 - 2021

Ordering: Order Online - http://www.researchandmarkets.com/reports/3754864/
Order by Fax - using the form below
Order by Post - print the order form below and send to
Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
**Fax Order Form**

To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit [http://www.researchandmarkets.com/contact/](http://www.researchandmarkets.com/contact/)

**Order Information**

Please verify that the product information is correct and select the format(s) you require.

- **Product Name:** Connected Home and Smart Appliances 2016 - 2021
- **Web Address:** [http://www.researchandmarkets.com/reports/3754864/](http://www.researchandmarkets.com/reports/3754864/)
- **Office Code:** SC

**Product Formats**

Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User:</td>
<td>USD 2995</td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 5 Users:</td>
<td>USD 3995</td>
</tr>
<tr>
<td>Electronic (PDF) - Enterprisewide:</td>
<td>USD 6995</td>
</tr>
</tbody>
</table>

* The price quoted above is only valid for 30 days. Please submit your order within that time frame to avail of this price as all prices are subject to change.

**Contact Information**

Please enter all the information below in **BLOCK CAPITALS**

<table>
<thead>
<tr>
<th>Title:</th>
<th>Mr □ Mrs □ Dr □ Miss □ Ms □ Prof □</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
<td>_________________________________</td>
</tr>
<tr>
<td>Last Name:</td>
<td>_________________________________</td>
</tr>
<tr>
<td>Email Address: *</td>
<td>_________________________________</td>
</tr>
<tr>
<td>Job Title:</td>
<td>_________________________________</td>
</tr>
<tr>
<td>Organisation:</td>
<td>_________________________________</td>
</tr>
<tr>
<td>Address:</td>
<td>_________________________________</td>
</tr>
<tr>
<td>City:</td>
<td>_________________________________</td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td>_________________________________</td>
</tr>
<tr>
<td>Country:</td>
<td>_________________________________</td>
</tr>
<tr>
<td>Phone Number:</td>
<td>_________________________________</td>
</tr>
<tr>
<td>Fax Number:</td>
<td>_________________________________</td>
</tr>
</tbody>
</table>

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card:

You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check:

Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer:

Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: ____________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World