Home Automation:Solutions and Business Issues 2008

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Nov. 23, 2009 - *PRLog* -- Report Summary

Home automation represents technology and solutions utilized to automate, manage, and control devices located within residential dwellings and small businesses by means of various remote control and automation methods. Remote control has evolved a long way since the devices first used to remotely control various consumer electronics and appliances (television, air conditions, computers) to support more integrated and comprehensive control. The goal of home automation solutions is to provide comfort, security, and efficiency for the residents and/or workers within a building. The main goal of automation is to enable residents/workers to perform normal daily tasks in a simpler, more efficient manner.

First published in 2007, Home Automation: Solutions and Business Issues 2008 provides updated information including company SWOT analysis for leading companies: Lutron Electronics Company, Control4, Home Automation Inc., JCL Automation, Cestron, Custom Solutions Inc. and Promwad. The updated report also includes a market segmentation study that contains factors that shape the home automation industry. Additional analysis covers consumer attitudes and concerns towards home automation. The publication also includes an evaluation of the different home automation technologies, a complete analysis for each technology, and finally the market analysis for the technology and future outlook from a market perspective.

Target Audience

Home Automation solution providers
Broadband service providers
Network operators including cable, wireline, and cellular
System integrators and professional service providers
Home builders and building automation companies

Companies Evaluated

Cestron
Control4
Custom Solutions Inc.
Home Automation Inc.
JCL Automation
Lutron Electronics Company
Promwad

Companies and Organizations Mentioned

Ademco
AMX
Analog Devices
Apex
Aprilaire
Architechtronics
Autonomic Controls
Autopatch
Bang & Olufsen
CentraLite
Connected Hearth
Control4
Convergent Living
Denon
DSC
Elan
Elk
Extron
First Alert
Freescale
Future Smart
General Electric
Global Cache
Home Automation Inc.
Home Depot Shop
Home Director
HomeLogic
Hometouch
Honeywell HVAC
Honeywell Security
IBM
Infocus
Integra (CI division of Onkyo)
IntelIntel
Itransition
Kenwood
Key Digital
Knox
Leviton
Lightolier Controls
Litetouch
LiteTouch
Lutron
MD Manufacturing Central Vacuums
Micro Center Shop
Microchip
Microsoft
Mitsubishi

NuVo
Omnipotence Software
Onkyo
OnQ /Legrand
Orbit Irrigation
Panamax
PCS
Pelham Sloane
Pentair Pool Products
Phillips
Pico
Pioneer
Proficient Audio Systems
Radio Shack
RCA
Russound
Russound
Samsung
Sharp
Shell
Smarthome Mfg
Solar Shading Systems
Somfy
SOMFY
Sony
Sony ES
SpeakerCraft
Texas Instruments
Tripplite
Ustec
Vantage
VisionArt
X10 inc.
Xantech
XM Radio.
ZigBee Alliance

Report Outline

Introduction and Concepts
Definition of Home Automation
General Concepts
Residential Home Automation Systems
Examples to Residential Home Automation Systems
Home Theater
HDTV
Whole House Audio
Video Distribution
Lighting Controls

Structured Wiring
Intercoms
Security Alarm
Surveillance Systems
Commercial Home Automation Systems
Examples to Commercial Home Automation Systems
Security Alarm
Surveillance Systems
History of Home Automation
History of X10 protocol
Benefits of Home Automation
Convenience
Security
Savings
Value
Success Stories with Home Automation
Don Marqurdt's Home

Home Automation Standards and Architectures
Introduction
Centralized Architecture
Distributed Architecture
Mixed Architecture
X 10 Home Automation Standard
Introduction
Power line Carrier Control Overview
X 10 protocol
ZigBee Home Automation Standard
Overview
Benefits of ZigBee Home Automation Standard
Home Automation Made Easy
Saving Money
Saving Environment
Easy to Grow
ZigBee Standard Architecture
ZigBee Network Reference Model
IEEE 802.15.4 Standard
ZigBee Standard
End Manufacturer Defined Hardware

Remote Control Interconnections Schemes
Wired Remote Control
Phone Remote Control
PC Remote Control Kits & Interface Devices
Wireless Remote Control
Remote Controls Using RF
IR Remote Control Transmitters & Receivers
Speech Recognition Based Remote Control

Sample Applications

Internet Connected Video Camera
Remote Thermostat
Remote Air Condition Control
Remote Oven Control
Lighting Control System
Security System
Security Sensors
Alert Systems
Cameras and Surveillance Systems
Remote Power Switch
IP Based Remote Power Switch
Wi Fi based Remote Power Switch
Internet based Remote Power Switch
Modem based Remote Power Switch

New Trends on Home Automation
Internet Based Home Automation System

Market Study
Objective of the Research
Market Segments and Potential
Introduction

Developed Market
Key Example: Home Cinema system
Home Automation Usage and Purchase Factors
Age
Education and Culture
Cost
Usability
Quality

Developing Market
Home Automation Usage and Purchase Factors
Cost
Quality
Usability
Warranty and Support

Emerging Market
Home Automation Usage and Purchase Factors
Age
Trust
Financially Safe
Warranty and Support
Customer Attitude towards Home Automation
Attitudes towards New Technology
Who is more interested in Home Automation?
Which is the most interested Home Automation Feature?
Concerns on Home Automation

Outlook for Home Automation
Home Automation Competitors

Lutron Electronics Company
Introduction
Products & Services
Dimmers
Solina?
Lyneo?
Rania?
Rania IR?
Wiring Accessories | WallPlates
GRAFIK Eye 3000 Series Multi Scene Preset Dimming Controls
GRAFIK IntegraleTM
Whole Home Controls
SWOT Analysis for Lutron
Strengths
Reputation among Competitors
Certification
Energy Saving
Patents and White Papers
Online Services
Lutron Lighting Energy Analysis
Sales Live Demo
Technical Support
Weakness
Lack of Developers Community
Opportunities
Partnerships for Enhancing Products
Cooperation with Bang & Olufsen
Partnership with AMX
Threats
Other Competitors

Control4
Overview
Key Management
Products
Lighting
Control4 Wireless Dimmer
Control4 Wireless Switch
Control4 Wireless Outlet Dimmer
Control4 Wireless Outlet Switch
Audio
Speakers
Speaker Points
Climate
Control4 Wireless Thermostat
Touch Screen
7" POE, Wall Mount Touch Screen

Control4 Wireless Touch Screen Version 2
Ethernet 10.5" Wall Mount Touch Screen
Control4 Wireless Mini Touch Screen
Control4 Ethernet Mini Touch Screen
Keypads
Controllers
Control4 Home Controller HC 300
Control4 Home Controller HC 500
Control4 Home Controller HC 1000
SWOT Analysis
Strengths
Customization
Modular Design
Online Services
Partnerships
Awards
Meeting LEEDs Certification
Online Forums and Developer Support
Opportunities
Spreading Business with RealNetworks and MTV
Gaining Customer Trust by Doubling Warranty
Threats
Other Competitors

Home Automation Inc. (HAI)
Overview
HAI Leadership
Infrastructure
HAI's Internal Conservation Efforts
Products & Services
Lighting Control by HAI
Dimmers and Switches
Scene Switch
House Status Switch
Security Products by HAI
Market Shares
Customers
Cisco Learning Institute
SWOT Analysis Strengths, Weaknesses, Opportunities & Threats
Strengths
Reputation among competitors
Development Center
Training
Award Winning Products
Energy Saving
Weakness
Lake of Online Services
Opportunities
Connectivity Partners
AMX (Audio / Video (A/V))

Architechtronics (Software)
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Figures

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State/Province	Beijing
Zip	100022
Country	China
Industry	Automotive, Home, Technology
Tags	Automotive, Home, Technology, Home automation
Link	https://prlog.org/10423908

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