Transfer your ideas to a tangible device or system

Deliver full-package service to achieve your business goal

OWON®

smart life

Home Automation & Security
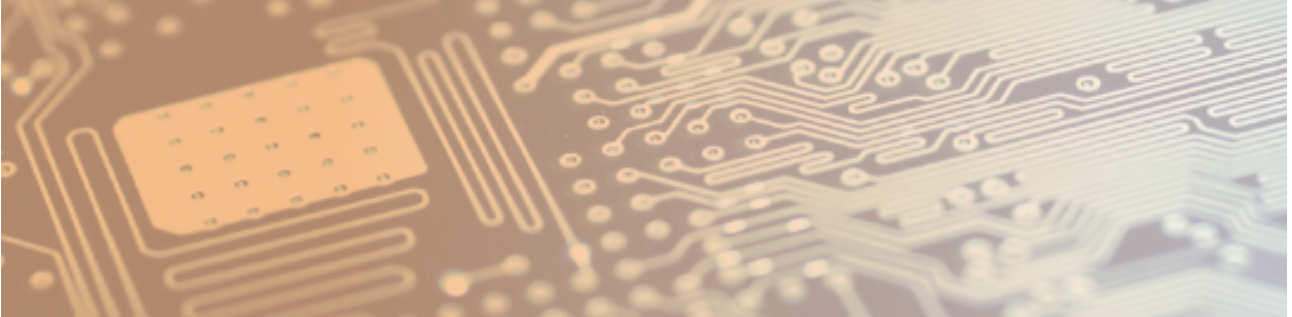
Smart Grid & Smart Metering

Wireless Devices. Smart Home System. IoT Platform

ODM Service Provider since 1993

owon®

Smart Technology, Smart Life

About OWON

OWON Technology Inc. (part of LILLIPUT Group) is an ISO 9001:2008 certified Original Design Manufacturer specialized in the design and manufacturing of electronic and computer-related products across the world since 1993.

OWON deploy's state-of-the-art IoT technologies to facilitate the transformation of various industries. At the device level, OWON offers both standard products and well-tailored devices as per customers' requirement; while at the system level, OWON provides both off-the-shelf system and customizable platforms for direct deployment and integration purpose.

- Transfer your ideas to a tangible device or system
- Deliver full-package service to achieve your business goal

Contents

Company Profile

OWON SmartLife aims at deploying state-of-the-art technologies to propel the efficient use of energy, and to create a "Greener, Cozier and Smarter" home environment, improve life standards and eventually contribute to human well-being.

"Sincerity, Success and Sharing" are the core values that OWON shares with both our internal and external partners, building up sincere co-operation relationships, striving together for win-win success and sharing a brilliant future.

22 years in the electronics industry

20 years in LCD display technology

15 years in embedded computer technology

12 years in the test & measurement industry

Quick Facts

Business Areas	• Smart Metering In Home Devices • Home Automation & Security Systems
Services	• Original Design Manufacturing
Quick Facts	• Founded: 1993 • Number of Manufactories: 2 • Total Plant Area: 18,000 square meters • Workforce: 350 • Brand Name: OWON, LILLIPUT • Annual Revenue: over $20 Million
Locations & Branches	• Head Sales Office - Toronto, Canada • R&D Office - Xiamen, China • Manufacturing Base - Zhangzhou, China • Overseas Branch Offices - USA, United Kingdom and Hong Kong
Core Technologies	• Embedded Computer System Design • M2M Wireless Connectivity • Smart Meter Interoperability • Software Application Design

Photo Gallery
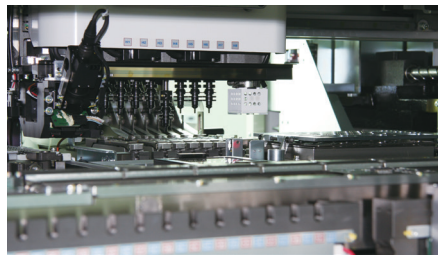

Canada Office

China Factory

SMT(1)

SMT(2)

Assembly Line

Dust-Free Workshop

R&D Department

Exhibition Room

Material Testing

Injection Molding Machine

Tooling Fabrication Department

Technologies

Embedded Computer System
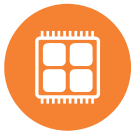
- Solutions: Ember, TI, Freescale, Samsung, Gainspan, ST
- Operating System porting: Linux, Android, WinCE, uCOS
- Peripheral driver development
- MCU Firmware design

M2M Wireless Technology

- ZigBee
- Wi-Fi
- TCP/IP
- Z-Wave
- GPRS
- 433MHz

Smart Meter Interoperability

- Interoperable Standards: ZigBee SEP, SMETS, Siemens, Trilliant, Silver Spring, Itron
- Integrates Home Area Network with Smart Meter
- Retrieves and displays energy data from Smart Meter
- Conducts utility Demand Response commands

Software Application Design

- UI (User Interface) and UE (User Experience) design
- Android mobile apps design
- iOS mobile apps design
- WinCE application design
- Third-party cloud server integration

ODM Services

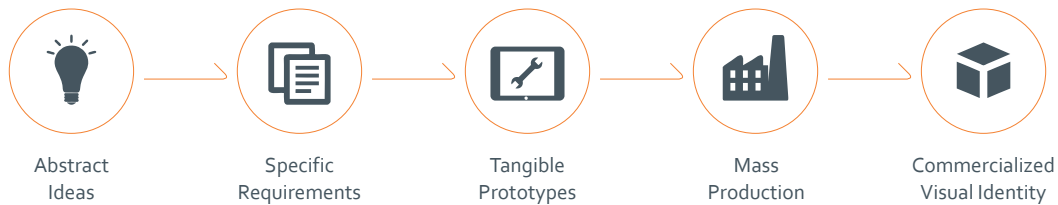*– Transfers your ideas to a tangible device or system*
Delivers full-package service to achieve your business goal

| Abstract Ideas | → | Specific Requirements | → | Tangible Prototypes | → | Mass Production | → | Commercialized Visual Identity |

Core Competencies

• Technology-oriented strategy that enables the sound capability of R&D and technical implementation;
• 20 plus years of manufacturing experience backed up with a mature and efficient supply chain;
• Stable and consistent human resources as well as active employee involvement due to the humanity corporate culture;
• The combination of "international accessibility" and "made in China" guarantees high-level customer satisfaction without sacrificing cost effectiveness.

Professional ODM Service

OWON is highly experienced in designing and customizing electronic devices specified by the customer's needs. OWON offers full-line R&D technical service including industrial & structural design, hardware & PCB design, firmware & software design, as well as system integration.

• Sound & Solid Technology Platforms A variety of "ready-to-go" technology mix to satisfy customer demand in various industries and applications	**• Unique and Outstanding Talents** Professional team backed by strong technical background and business proficiency that enables seamless technical communication with customers worldwide
• Flexible Order Volume Welcomed Willing to grow with customers, OWON welcomes projects and orders in flexible scales	**• Competitive Operational Cost** Complete R&D and manufacturing facilities located in China offering cost-effective ODM service

Cost-Effective Manufacturing Service

OWON has been engaging in volume production of both standardized and customized electronic products since 1993. Through the years, OWON has accumulated abundant experience and competence in product manufacturing, such as Mass Production Management, Supply Chain Management, Total Quality Management, etc.

• Production Capacity Sophisticated workers with streamlined production lines in meeting various mass production tasks	**• Stable Human Resource** 80% of production line workers have 5+ years' experience within the company
• Manufacturing Planning – MRP & ERP Equipped with Manufacturing Resource Planning (MRP) and Enterprise Resource Planning (ERP) systems	**• Quality System – ISO & TQM** ISO9001 certified since 2003, continuously implements company-wide Total Quality Management (TQM)

Home Automation & Security

For Residential and Commercial Application

— Any Home Can Be Smart

At the device level, OWON offers a variety of white-labeled ZigBee Certified devices in compliance with ZHA or ZLL standards, including Home Automation Gateway, Smart Thermostat, Split A/C Control, Smart Plug, Power Relay, On/Off Dimmer Switch, Remote Control, Range Extender, etc. In addition to providing off-the-shelf models, OWON is also highly experienced in providing our customers with "well-tailored" devices as per their requirements so as to perfectly match their technical and business goals.

• Transfer ideas to a tangible device and deliver full-package service to achieve the business goal
• Practical functions and features that contribute to people's day-to-day life
• Sleek industrial design and friendly user interface to enhance user's experience
• Follow industrial standards to enable the interoperability with third-party system

At the system level, OWON has been dedicated in creating UNIVERSAL and PLUG&PLAY smart home systems, which could not only significantly ease the installation efforts at consumer side, so that any home can transit to a smart home within a blink; but also dramatically simplify the pre-sales efforts from the dealer aspect, thus eventually facilitate the entire distribution process. Moreover, OWON system is designed in a modular topology allowing each module to be freely added to or removed from the platform. Therefore, instead of a one-time investment, the customers could start their Smart Home migration step by step from any starting packs and gradually build up their smart home dream. The system is ideal for

• Cable/Broadband operators who are seeking a Plug & Play Home Security System to enrich their value-added services
• Home builders who are interested in a Smart Home System to enhance their property's living experience
• Property-management service providers who desire a well-tailored management system to facilitate their day-to-day operation
• Consumer electronics distributors and retailers who are searching for an easy-to-install Smart Home System to minimize their pre and after sales activities

While at the platform level, OWON's solution is a complete system consists of Home Automation Gateway, Surrounding ZigBee Components, Cloud Server and Mobile App that cover each segment of the entire IOT framework. By offering open API (Application Programming Interface) and CPI (Communication Protocol Interface) for third-party development or system integration, users can either develop their own firmware right on the Gateway device by deploying the API, or integrate the Gateway with a designated Cloud Server/Mobile App following the CPI.

• Reliable ZigBee Home Area Network backed with mature node management technology
• Complete ZigBee to IP conversion to facilitate the integration with Cloud Server or Mobile Application
• Customizable hardware package for flexible application
• Modular design to allow easy and expandable application

ZigBee   ZigBee Home Automation   All-in-One   Hassle-free Installation   Multiple Control Devices   DIY & Expandable
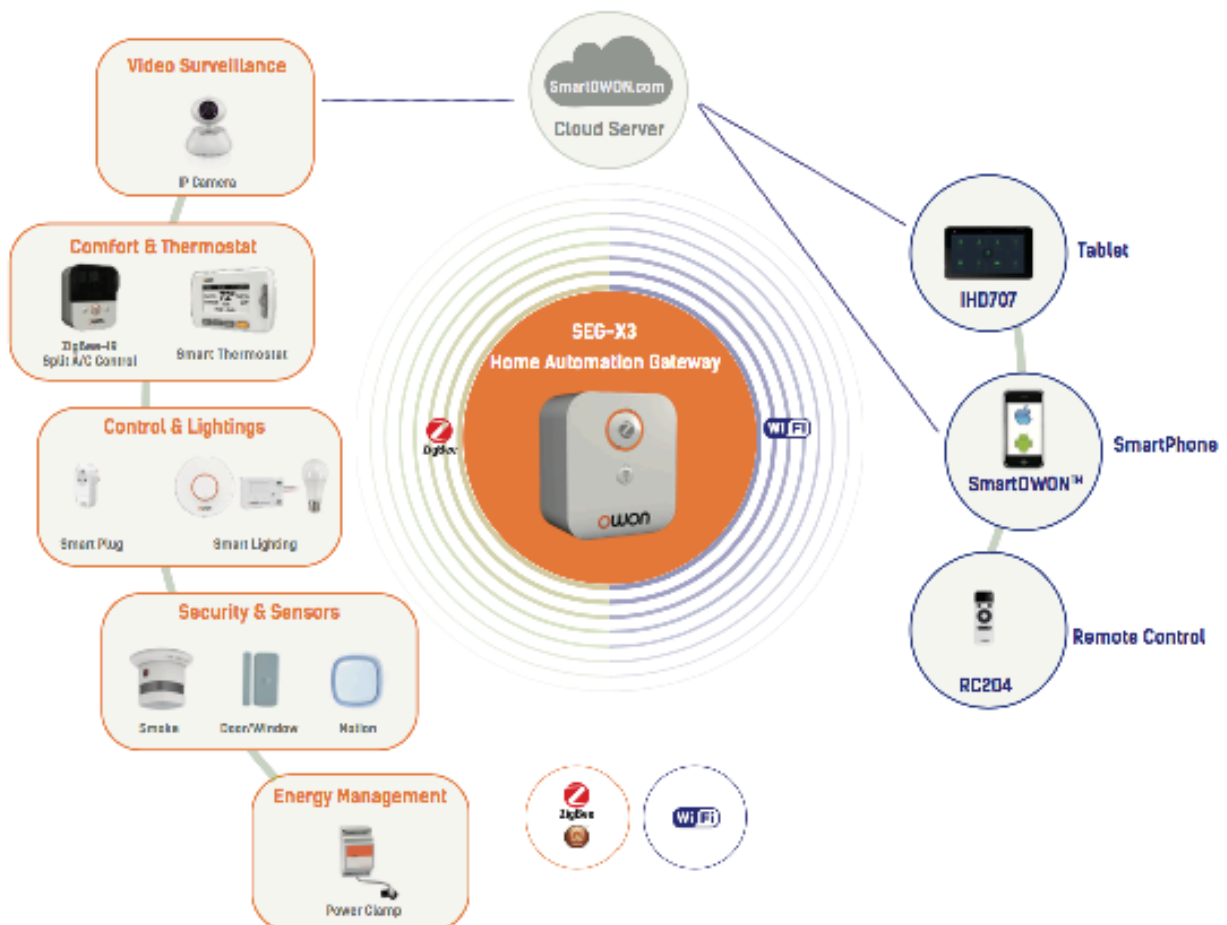
Solutions
– All-in-One Home Automation & Security System

HASS 6000

HASS 6000 is a completely wireless system centralized by a Home Automation Gateway that equipped with both ZigBee and Wi-Fi connectivity. The Gateway integrates the Home Area Network using its ZigBee connectivity, while connects to personal mobile devices directly or via a Cloud Server given its Wi-Fi connectivity. Customers could either install the mobile app on their own mobile devices, or choose OWON's pre-integrated tablet with the mobile app already installed. Meanwhile, the users could also simply use a Mini ZigBee remote controller to control the system. Thus enables consumers to enjoy the system not only whilst in their house but also anywhere else away from home.

The system consists of 5 sub-modules (Energy, Temperature, Automation, Security and Video), which is designed in a modular topology allowing each module to be freely added to or removed from the platform. Therefore, instead of a one-time investment, the customers could start their Smart Home migration step by step from any of the 5 Starting Packs and gradually build up an ideal system specially for their home.

Solutions
– Home Automation & Security System

HASS 6000V – Video Kit
Key Components:
• IP Camera: IPC801

Video Surveillance
Simply leave the IP cameras at home wherever with WiFi coverage, you are then able to monitor your front door and backyard, keep an eye on your sleeping baby, and watch over your pets even you are away from home.

HASS 6000S –Security Kit
Key Components:
• Door/Window Sensor: DWS302
• Motion Sensor: PIR303
• Smoke Detector: SD304

Home Security Monitoring
OWON home security kit consists of various ZigBee-enabled security sensors, which join the Home Area Network and further connect to the Cloud Server, so that the periodical sensor status and alarm alerts could be forwarded to the user's mobile devices remotely.

HASS 6000A – Automation Kit
Key Components:
• Smart Plug: WSP403-HA
• Smart Lighting: SLC601-HA, SLC602-HA

Smart Plug
The Smart Plug allows remote On/Off control of home appliances to save energy and prevent the appliances from overheating. Meanwhile it could measure the energy usage of each appliance and forward the information to the user's smartphones or tablets. The Smart Plug is also an ideal tool in converting desk lamps or floor lamps into smart lighting. Moreover, by working in conjunction with the Home Automation Gateway, the Smart Plugs will be able to run at a user-defined schedule.

Smart Lighting
Users could transform their ordinary lighting into a smart system simply by inserting the ZigBee power relay - SLC601 into the existing circuit. The user will then be able to control the lighting On/Off using their mobile devices, a remote control or the ZigBee wireless lighting switch - SLC602. By working in conjunction with the Home Automation Gateway, the lights could be turned On/Off according to schedule.

HASS 6000C – Comfort Kit
Key Components:
• Smart Thermostat: PCT501-HA
• Split A/C Control: AC201-HA

Central Temperature Control
By replacing the ordinary thermostat with the ZigBee enabled Smart Thermostat – PCT501, the users could integrate their central heating system with the Home Automation Gateway. Thus allows the users to monitor and control their home temperature using the mobile devices anywhere anytime. The system also supports 7-day scheduling and multiple hold options.

Split Air Conditioner Control
With the help of the ZigBee/IR converter – AC201, the system converts ZigBee protocol into split A/C's IR commands, which enables the users to control the Split A/C using mobile devices either locally or away from home. The AC201 is pre-configured with IR code-sets that work with most main stream split A/C models on the market. The system could also study new IR codes when rare models are encountered.

HASS 6000E - Energy Kit
Key Components:
• Power Clamp: PC301

Whole Home Energy Monitor
Users could clamp the Power Clamp onto the main power line within their Circuit Breaker Board. The whole home instantaneous power will be then detected and forwarded to the Home Automation Gateway, where the data will be calculated and analyzed before eventually displayed on the user's mobile devices. Thus the users are able to check on their energy usage including instantaneous power, accumulative power consumption, history data and more.

Solutions
– Software Application

Mobile App

SmartOWON™

Description

SmartOWON™ mobile app is is a simple and easy-to-use way to control your home automation devices from anywhere at any time by logging your mobile devices either to the OWON gateway or compatible cloud servers.

Available for both Android-based devices such as smartphones, tablets, etc. and iOS-based devices such as iPhone, iPad, etc.

Connecting Mode

Customers could either install the mobile application on their own mobile devices, or choose OWON's pre-integrated Android tablet IHD707.

A.Local: Register the gateway to a local WiFi network, and use mobile devices to visit the gateway locally within the Local Area Network

B.Cloud: Register the gateway to a Cloud Server, and use mobile devices to visit the gateway remotely via the Internet
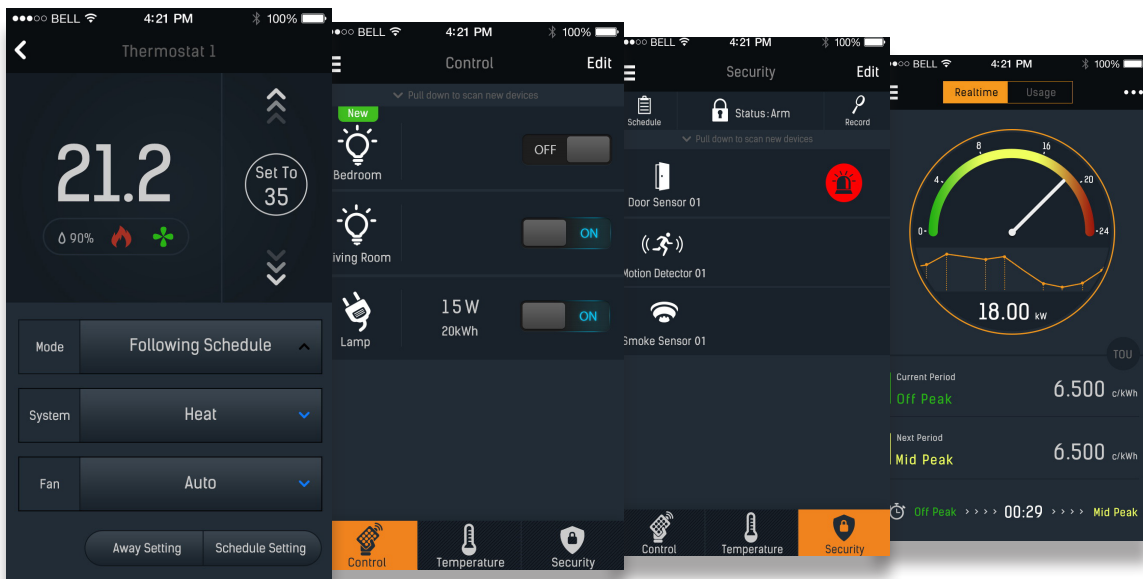
Cloud Server

Cloud Server SmartOWON.com

OWON's Cloud Server SmartOWON.com allows the users to remotely access to the Home Automation Gateway so as to monitor and control their Home Automation & Security System using their mobile devices both locally and away from home.

Smart Lighting Solutions
For home application
— Brighten your home with one click

OWON Smart Lighting Solution is a powered by standard ZigBee Light Link technology that allows its devices to interface seamlessly with a number of mainstream lighting systems in the market. OWON offers a variety of white-labeled lighting switches and remote control to the industry with special design on the practical features, user's experience and sleek outlook, which become perfect complement to the existing ZLL lighting systems from all major industry players.

OWON also offers simple and cost-effective complete lighting system enabling the users to transform their home to a smarter and cozier living space with minimal efforts and investment. Hassle-free installation, convenience and comfort are the theme of OWON's smart lighting system.

Hassle-free Installation
OWON's system offers the quickest way to convert your existing lighting to an integrated smart system. This is to be done through replacing your household light bulbs with ZigBee-enabled LEDs for various smart applications. With the help of ZigBee-enabled LED bulb, you could remotely switch on/off the light, dim the light to the most comfortable brightness, adjust the right color temperature for different scenarios, or even choose the light color for special occasions.

Convenience
One of the best features of smart lighting is versatility of control, which means you do not have to be tied to a dedicated wall switch to power a light. Although the popular way is toward controlling lights wirelessly via apps on smart phones or tablets, let's imagine how many clicks you will have to make before you could actually switch On/Off a light. But with OWON's Smart Lighting solution, you could now simply switch On/Off a light using a ZigBee wireless switch or remote control.

In an OWON system, each converted light could be paired with and remotely controlled by more than one Wireless Switch. It allows you to control your lights from anywhere in the house by sprinkling Wireless Switches around in your home. With the help of a Mini ZigBee Remote Control, the users are further allowed to integrate multiple groups of lightings into a single system, so as to monitor and control the whole-home lighting with a Mini Remote in hand.

ZigBee®	ZigBee Lighting Link	Plug & Play	Remote Control	Dimmable	Color temperature

Solutions
– Mini Smart Lighting Kits

HASS 7000

HASS 7000 system is a simple and convenient ZigBee Light Link (ZLL) profile based solution. It enables the users to realize their Smart Home dream with minimal efforts and investment. Households could simply replace their light bulbs with ZigBee-enabled LEDs for various smart applications such as remote On/Off, dimming and even the adjustment of color temperature. Each LED bulb could be paired with and remotely controlled by one or more Remote Switches from anywhere at home. With the help of a Mini ZigBee Remote Control, the users are further allowed to integrate up to 4 groups of lightings into a single system, so as to monitor and control the whole-home lighting with a Mini Remote in hand.
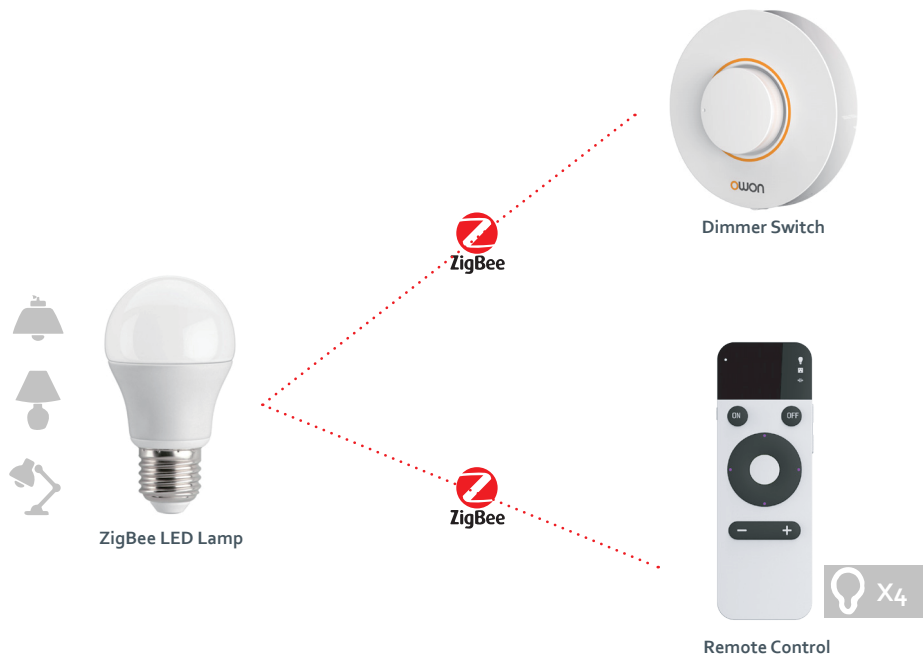
Dimmer Switch

ZigBee

ZigBee

ZigBee LED Lamp

X4

Remote Control

Smart Metering In Home Devices
For Utility Application

– Bring substantial value to the end customers

There has been massive deployment of Smart Grid infrastructure and Distribution Automation solutions in the past years, which brings considerable benefits to the utilities and the energy sector as a whole. Time is now ready for the second movement by encouraging active customer involvement to maximize the value of Smart Grid deployment. However, there seems to be an insurmountable barrier between the industry and the end customers. Government legislation, customer education, complimentary devices and even monetary incentives, none of the above could actually break the ice and fundamentally inspire the passion of the end customers. It seems that smart customers may not care about "Free Junks", but they would pay for what they perceive to be VALUABLE.

By deploying universal industrial standards and partnering with major industry players, OWON aims at bringing intuitive and substantial VALUE to the end customers.

• Introduces home-friendly industrial design and user-friendly UI into the In-Home Display (IHD) concept, thus to increase the attractiveness and practicality of the IHD devices
• Delivers Customer Accessible Devices (CAD) and mobile apps to convert customers' smart devices into a smart energy platform, offering enhanced users experience without sacrificing the cost-effectiveness
• Utilizes Smart Energy Gateway to integrate practical control features and fun gadgets into the Smart Metering HAN, thus to increase the customer initiative and willingness to be involved
• Helps the end customers to actually save their energy usage and money spending

OWON has been engaged in Smart Metering deployment projects since 2011 by offering In-Home Display, Customer Accessible Device, and Programmable Communicating Thermostat to the Utility industry. The team has successfully deployed ZSE1.2 stacks and followed UK SMETS2 standard in our Smart Energy products enabling the interoperability with a number of mainstream AMI systems and Smart Meter suppliers such as Trilliant, Silver Spring, Itron, GE, Siemens, etc.

In addition to the individual ZSE devices, OWON also provides a Demand Response Management Solution centralized by a Smart Energy Gateway SEG-X3. In parallel with the Utilities Demand Response framework, the system also allows end-users to easily monitor and control their pool pumps or PCTs away from home using a mobile App. The Energy Gateway interfaces with the Smart Meter and the load control devices within the Home Area Network using its ZigBee connectivity, while further bridges the HAN to the Cloud Server via broadband.

Solutions
– In-Home Display

HEMS 1000

HEMS 1000 enables a ZigBee-based In-Home Display to talk to the Smart Meter allowing real-time & historic energy data to be received and displayed on the user's desktop.

Key Components:

• Smart Meter
• In-Home Display: IHD701 or IHD703

Smart Meter

IHD703
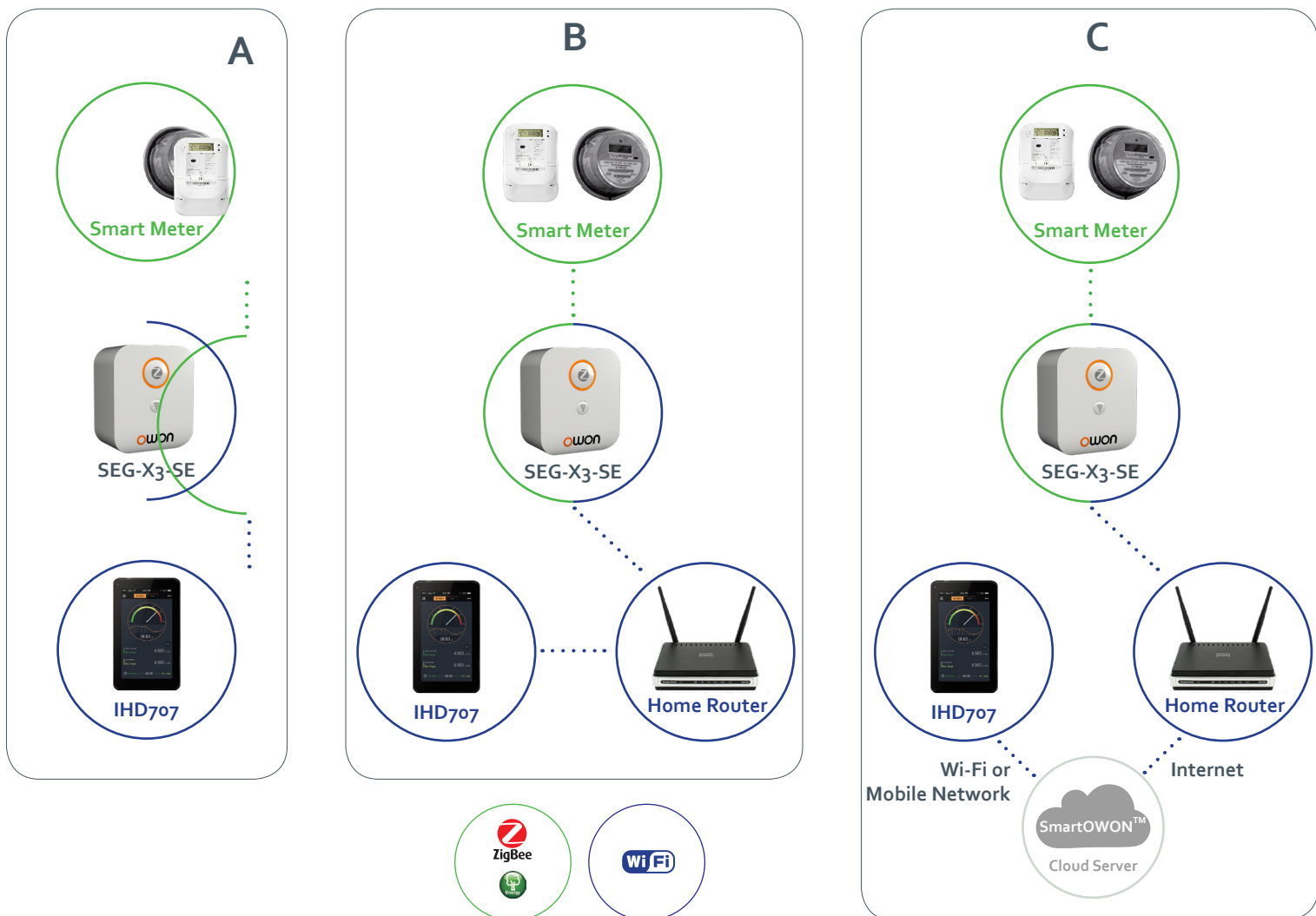In-Home Display

IHD701
In-Home Display

Solutions
– Customer Accessible Device

HEMS 2000

OWON Smart Meter CAD consists of a smart energy gateway SEG-X3, the mobile application and the cloud server. Equipped with both ZigBee & Wi-Fi connectivity, SEG-X3 is able to collect energy usage and pricing information from the Smart Meter; while forward the data to customers' mobile devices locally or via the Internet. This enables consumers to check on energy usage and receive alerts not only whilst in their house but also anywhere else away from home.

Customers could either install the mobile application on their own devices, or choose OWON's pre-integrated tablet IHD707 with the mobile application already installed. Users could then choose from the following three options in accessing to the Smart Meter information:

A. DIRECT LINK: Connect mobile devices to the gateway's Wi-Fi signal and retrieve data directly from the gateway
B. WLAN: Register the gateway to a local Wi-Fi network, and use mobile devices to visit the gateway locally within the Local Area Network
C. CLOUD: Register the gateway to a Cloud Server, and use mobile devices to visit the gateway remotely via the Internet

A

Smart Meter

SEG-X3-SE

IHD707

B

Smart Meter

SEG-X3-SE

IHD707

Home Router

ZigBee

Wi-Fi

C

Smart Meter

SEG-X3-SE

IHD707

Home Router

Wi-Fi or Mobile Network

Internet

SmartOWON™
Cloud Server

Key Components:

- Smart Meter
- Smart Energy Gateway: SEG-X3
- Mobile Application: SmartOWON™
- Tablet: IHD707 (Optional)
- Cloud Server: SmartOWON.com or third party Cloud Servers

Solutions
– Demand Response Management (AMI-based)

HEMS 3100

HEMS3100 is a Demand Response Management system centralized by a Smart Meter that allows utilities to control and manage the Demand Response programs via the AMI network. The Smart Meter acts as a ZigBee coordinator that integrates all Smart Energy components within Home Area Network at one side, while connects to the utility back office at the other side. It receives the Demand Response commands from the utility back office and passes down to each component that runs on ZigBee Smart Energy Profile.

Key Components:
- Utility Back Office
- Smart Meter
- OWON Components: Programmable Communicating Thermostat, Split A/C Control, Smart Plug, Power Relay
- Third-party Components: Circuit Breaker, Load Control

Utility Back Office

EMS DMS GIS

OpenADR Server

AMI MDM

Circuit Breaker

Load Control

ZigBee

ZigBee

Smart Meter

ZigBee

Programmable Communicating Thermostat

PCT501

Split A/C Control

AC201

Smart Plug

WSP403

Power Relay

SLC601

Solutions
– Demand Response Management (Cloud-based)
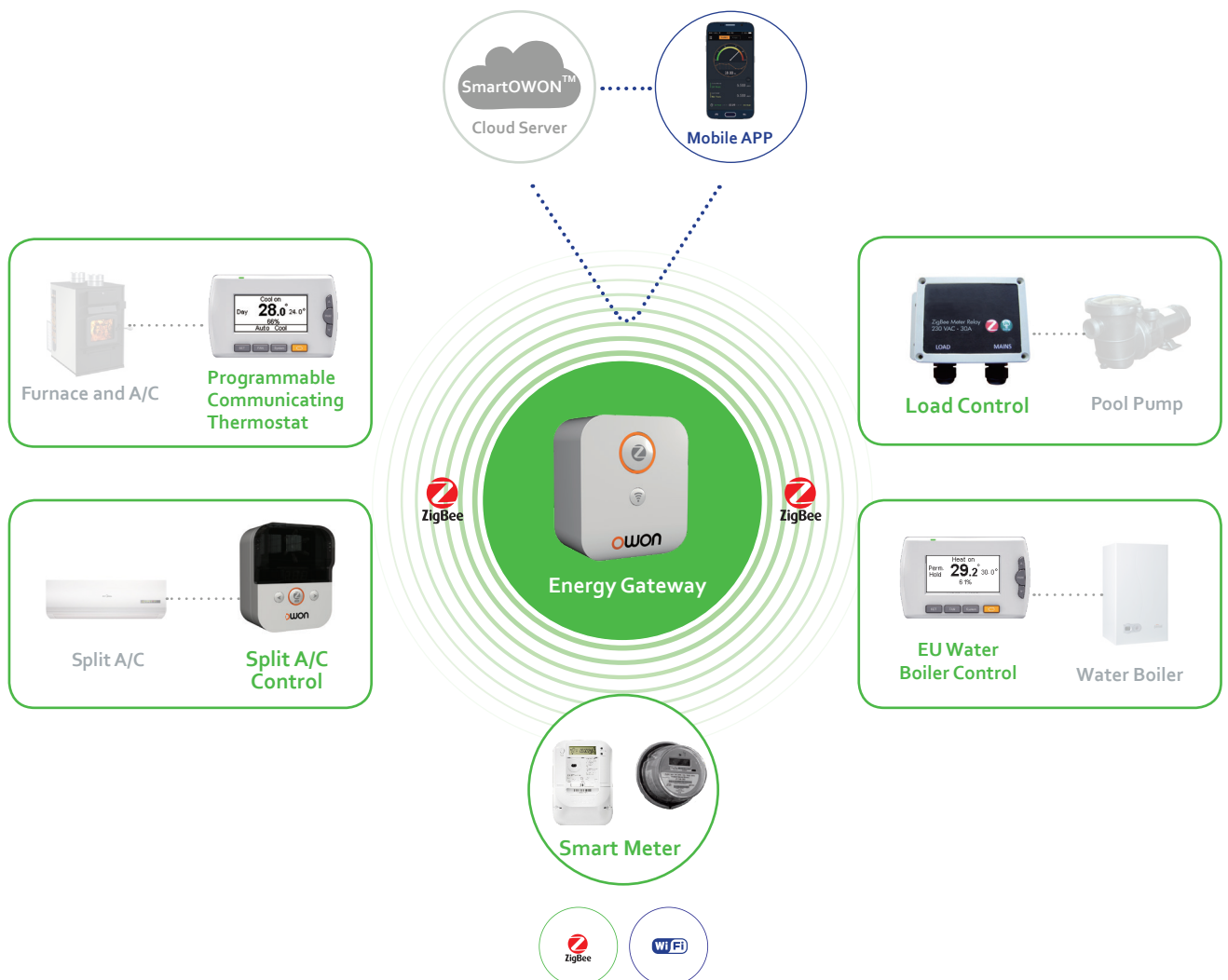
HEMS 3200

OWON Demand Response Management system consists of an Energy Gateway and a number of surrounding DR components such as US standard Programmable Communicating Thermostat, European standard Heating Unit, Split A/C control and Load Control Switch.

The Energy Gateway and the DR devices are all equipped with ZigBee SEP1.1x protocol and will be able to join the same Home Area Network coordinated by a SEP1.x Smart Meter. Such system topology allows both utility and household to control and manage the demand response programs, which unlocks more value so that customers better benefit from the smart grid deployment.

At the Utility side, the DR command from the back office will be delivered to a specific device through a Smart Meter. While at the end users side, the Energy Gateway not only interacts with the DR components given its ZigBee connectivity; but also connects to the end user's mobile devices either directly or via a cloud server using its WiFi connectivity. This allows the end users to access to their Home Energy Management either locally or from distance, so as to actively involve in the Demand Response Program.

Key Components:

- Cloud Server: Utility Cloud Server
- Smart Meter
- Smart Energy Gateway: SEG-X3
- OWON Components: Programmable Communicating Thermostat, Split A/C Control, EU Water Boiler Control
- Third-party Components: Load Control
- Mobile Application: SmartOWON™
- Tablet: IHD707 (Optional)

SmartOWON™
Cloud Server

Mobile APP

Furnace and A/C — **Programmable Communicating Thermostat**

Load Control — Pool Pump

ZigBee — **Energy Gateway** — **ZigBee**

Split A/C — **Split A/C Control**

EU Water Boiler Control — Water Boiler

Smart Meter

ZigBee WiFi

Products
— Gateway

SEG-X3   ZigBee Home Automation Gateway

Main Features

- ZigBee HA1.2 compliant
- ZigBee SEP 1.1 comliant
- Smart meter interoperability (SE)
- ZigBee coordinator of the home area network
- Powerful CPU for complicated calculation
- Mass storage capacity for historic data
- Cloud server interoperability
- Firmware upgradable via micro USB port
- Affiliate mobile apps

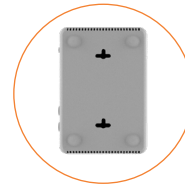## API and CPI for Third-party Integration

OWON offers open API (Application Programming Interface) and CPI (Communication Protocol Interface) to facilitate the flexible integration between the Energy Gateway and the third party Cloud Server. The users can either develop their own firmware right on the Gateway device by deploying the API, or integrate the Gateway with a designated Cloud Server / Mobile App following the CPI.

Main Specifications

Hardware	
CPU	• ARM Cortex-M3
Flash Rom	• 1M
Data Interface	• Micro USB port
Data Storage Capacity	• TF Card: 8G
Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4 • Wi-Fi
RF Characteristics	• Operating frequency: 2.4GHz • Internal PCB Antenna • Range outdoor/indoor: 100m/30m
Power Supply	• AC 100 ~ 240V, 50~60Hz • Rated power consumption: 1W
LEDs	• Power, ZigBee, Wi-Fi
Dimensions	• 56(W) x 66 (L) x 36(H) mm
Weight	• 103 g
Mounting Type	• Direct Plug-in • Plug Type: US, EU, UK, AU

Software	
WAN Protocols	• IP Addressing: DHCP, Static IP • Data Porting: TCP/IP, TCP, UDP • Security Modes: WEP, WPA / WPA2
ZigBee Profile	• Home Automation Profile • Smart Energy Profile
Downlink Commands	• Data format: JSON • Gateway Operation Command • HAN Control Command
Uplink Messages	• Data format: JSON • Home Area Network information • Smart meter data
Security	Authentication • Password protection on mobile apps • Server/gateway interface authentication ZigBee Security • Preconfigured Link Key • Certicom Implicit Certificate Authentication • Certificate-Based Key Exchange (CBKE) • Elliptic Curve Cryptography (ECC)

Products
– Gateway

SEG-X1-ZE ZigBee/Ethernet Gateway

Main Features

- ZigBee HA1.2 compliant
- ZigBee coordinator of the home area network
- Powerful CPU for complicated calculation
- Mass storage capacity for historic data
- Cloud server interoperability
- Firmware upgradable via micro USB port
- Affiliate mobile apps

API and CPI for Third-party Integration

OWON offers open API (Application Programming Interface) and CPI (Communication Protocol Interface) to facilitate the flexible integration between the Energy Gateway and the third party Cloud Server. The users can either develop their own firmware right on the Gateway device by deploying the API, or integrate the Gateway with a designated Cloud Server / Mobile App following the CPI.

Main Specifications

Hardware	
CPU	• MIPS, 200MHz
Flash Rom	• 2MB
Data Interface	• Micro USB port
SPI Flash	• TBD
Ethernet	• 100M bps • Auto MDIX
RF Characteristics	• Operating frequency: 2.4GHz • Internal PCB Antenna • Range outdoor/indoor: 100m/30m
Power Supply	• 5V DC • Rated power consumption: 1W
LEDs	• Power, ZigBee, Ethernet, Bluetooth
Dimensions	• 91.5(W) x 133 (L) x 28.2(H) mm
Weight	• 103 g
Mounting Type	• Direct Plug-in • Plug Type: US, EU, UK, AU

Software	
WAN Protocols	• IP Addressing: DHCP, Static IP • Data Porting: TCP/IP, TCP, UDP • Security Modes: SSL
ZigBee Profile	• Home Automation Profile
Downlink Commands	• Data format: JSON • Gateway Operation Command • HAN Control Command
Uplink Messages	• Data format: JSON • Home Area Network information
Security	Authentication • Password protection on mobile apps • Server/gateway interface authentication ZigBee Security • Preconfigured Link Key • Certicom Implicit Certificate Authentication • Certificate-Based Key Exchange (CBKE) • Elliptic Curve Cryptography (ECC)

Products
– Gateway

SEG-X5 ZigBee/BLE Gateway

Main Features

• ZigBee HA1.2 compliant
• Bluetooth BLE4.0
• Converts wearable device's Bluetooth siganl to ZigBee signal so as to remotely monitor heath status
• Pass-through socket for various country standards: EU, UK, AU

Main Specifications

|	
Wireless Connectivity	• Bluetooth 2.4GHz ISM band • ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4GHz • Internal PCB Antenna • Range outdoor/indoor: 100m/30m
ZigBee Profile	• Home Automation Profile
Bluetooth Specification	• BLE4.0
Operating Voltage	• AC 100 ~ 240V
Max. Load Current	• 10 Amps @ 110VAC; or 10 Amps @ 220 VAC
Dimensions	• 102 (L) x 64(W) x 38 (H) mm
Weight	• 125 g

Products
– Comfort & Thermostat

AC201 ZigBee IR Blaster
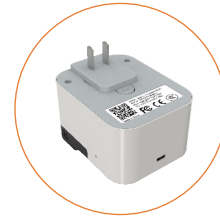
Main Features

• Converts home automation gateway's ZigBee signal into IR command so as to control the split air conditioners in the home area network.
• All-angle IR coverage: equipped with 7 IR emission sensors to cover 180° of the target area.
• Room temperature display
• Pre-installed IR code for main stream split air conditioners
• IR code study functionality for unknown brand A/C devices
• Switchable power plugs for various country standards: US, EU, UK

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4 • IR
RF Characteristics	• Operating frequency: 2.4GHz • Internal PCB Antenna • Range outdoor/indoor: 100m/30m • TX Power: 6~7mW(+8dBm) • Receiver sensitivity: -102dBm
ZigBee Profile	• Home Automation Profile
IR	• Infrared emission and receiving • Angle: 120° all-angle covering • Working temperature: 0-70°C • Carrier frequency: 15kHz-85kHz
Temperature Sensor	• Measuring range: -10-85°C
Power Supply	• Direct plug-in: AC 100~240V (50~60Hz) • Rated power consumption: 4W
Dimensions	• 66.5(L) x 85(W) x 43(H) mm
Weight	• 116 g
Mounting Type	• Direct Plug-in • Plug Type: US, EU, UK, AU

Products
– Comfort & Thermostat

PCT501 ZigBee Programmable Communicating Thermostat
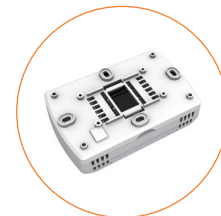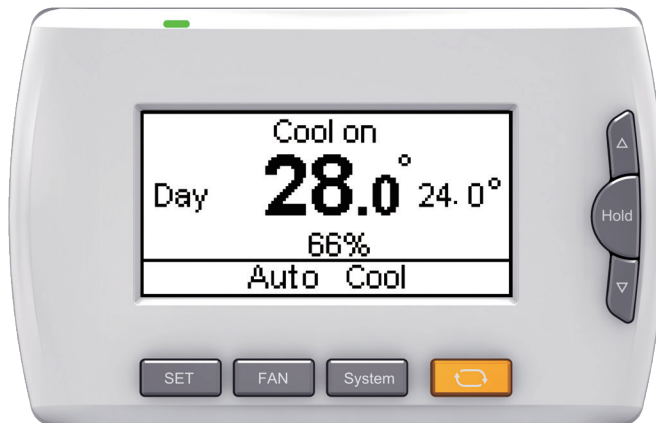
Main Features

- ZigBee HA1.2 compliant (HA)
- Temperature remote control (HA)
- Single stage heating and single cooling control
- 3" LCD display
- Temperature and humidity display
- Supports 7-day programming
- Multiple HOLD options
- Heating & cooling indicator

Main Specifications

|	
SOC Embedded Platform	• CPU: ARM Cortex-M3
Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4GHz • Internal PCB Antenna • Range outdoor/indoor:100m/30m
ZigBee Profile	• Home Automation Profile • Smart Energy Profile
Data Interfaces	• UART (Micro USB port)
Power Supply	• AC 24V • Rated power consumption: 1W
LCD Screen	• 3" LCD • 128 x 64 pixels
Built-in Li-ion Battery	• 500 mAh
Dimensions	• 120(L) x 22(W) x 76 (H) mm
Weight	• 186 g
Thermostat	• Stages:Single Heating and Single Cooling • Switch positions (System): HEAT-OFF-COOL • Switch positions (Fan): AUTO-ON-CIRC • Power method: Hardwired • Sensor element: Humidity/Temperature Sensor
Mounting Type	• Wall Mounting

Products
– Comfort & Thermostat

PCT502 Smart Thermostat (EU)

Thermostat
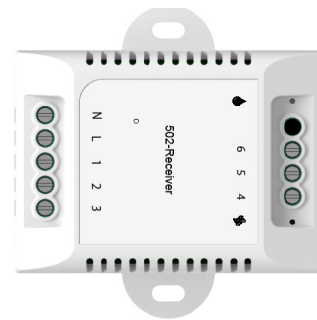
Heat receiver

Main Features

- ZigBee HA1.2 compliant
- Support Combi boiler, S-plan/Y-plan Central Heating (Hot Water not supported)
- Temperature remote control
- Back-up battery
- 3" LCD display
- Temperature and humidity display
- Supports 7-day programming
- Freeze protection

Heat Receiver Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
Power input	• 100-240 Vac
Size	• 64 x 45 x 15 (L) mm

Main Specifications

SOC Embedded Platform	• CPU: ARM Cortex-M3
Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4GHz • Internal PCB Antenna • Range outdoor/indoor:100m/30m
ZigBee Profile	• Home Automation Profile • Smart Energy Profile
Data Interfaces	• UART (Micro USB port)
Power Supply	• DC 5V/DC 12v (Optional) • Rated power consumption: 1W
LCD Screen	• 3" LCD • 128 x 64 pixels
Built-in Li-ion Battery	• 500 mAh
Dimensions	• 120(L) x 22(W) x 76 (H) mm
Weight	• 186 g
Compatible Systems	• Y-PLAN /S-PLAN Central Heating (Hot Water not supported) • Combi-boiler
Installation Type	• Wall Mounting • Stand

Products
– Comfort & Thermostat

PCT503-Z ZigBee Programmable Communicating Thermostat

Main Features

HVAC Control

- Supports 2H/2C multistage conventional system and Heat Pump system
- One-touch AWAY button to save energy while you are on the go
- The 4-period and 7-day programming fits perfectly with your life style. Program your schedule either on the device or through the APP
- Multiple HOLD options: Permanent Hold, Temporary Hold, Back to Schedule
- Automatic heating and cooling changeover
- Fan cycle mode periodically circulates air for comfort
- Compressor short cycle protection delay
- Failure protection by cutting off all circuit relays after power outage

Information Display

- 3.5" TFT color LCD divided into two sections for better information display
- The default screen displays the current temperature/humidity, temperature set-points, system mode, and schedule period
- Display time, date and day of the week in a separate screen
- The system working status and fan status are indicated in different backlit colors (Red for heat-on, Blue for cool-on, Green for fan-on)

Unique User Experience

- Screen lights up for 20 seconds when motion is detected.
- Interactive wizard guides you through the quick setup without hassles
- Intuitive and simple UI to ease the operation even without user's manual
- Smart rotary control wheel + 3 side-buttons for easy operation while adjusting temperature or navigating menus

Wireless Remote Control

- Remote control using mobile APP by working with compatible ZigBee Smart Home Systems, allowing multiple thermostats to be accessed from single APP
- Compatible with ZigBee HA1.2 with complete technical document available to facilitate the integration with 3rd party ZigBee hubs
- Over-the-Air firmware upgradable via WiFi as optional

Future Upgrades

- Shows you the temperature/humidity outside or other indoor locations using remote temperature/ humidity sensors
- You could choose the onboard sensor temperature, any remote sensor temperature or the average temperature to be compared with set points temperature
- Sends you notifications if the temperature gets too cold or too hot
- Auto heat cut-off at or higher than 99°F (37°C); Auto heat cut-in at or lower than 39°F (4°C)
- Equipped with both ZigBee Smart Energy and WiFi modules to interface with Smart Meter and Cloud Server at the same time

PCT503-ZHA Technical Specifications

Compatible Systems	
RF Characteristics	• 2-stage heater and 2-stage cooling HVAC systems • Supports natural gas, heat pump, electric, hot water, steam or gravity, gas fireplaces (24 Volts), oil heat sources • Supports any combination of systems
Heat	• Up to 2 stages
Cool	• Up to 2 stages
Aux Heat	• Up to 2 Stages
Heat Pump	• Up to 2 Stages • 1 stage + 1 aux • 1 stage + 2 aux • 2 stage + 1 aux • 2 stage + 2 aux • Dual Fuel Heat Pump • 4 stage heating (2 compressor, 2 aux heat), 2 stage cooling

Wiring Terminals Definition	
RH	• 24VAC primary for heating
RC	• 24VAC primary for cooling
C	• 24VAC common
W1	• 1st stage Primary heating relay / Aux heat
W2	• 2nd stage Secondary heating relay / Aux heat
Y1	• 1st stage Primary cooling compressor contactor
Y2	• 2nd stage Secondary cooling compressor contactor
G	• Fan relay
O/B	• Changeover valve for heat pumps.
*	• Multiple use reserved, including but not limited to: emergency heat line, humidifier control.
S	• Optional wiring module terminal to combine W and G, while reserve an extra in-wall wire to power on the thermostat

HVAC Control Functions	
System Mode	• Heat, Cool, Auto, Off, Emergency Heat (Heat Pump only)
Fan Mode	• On, Auto, Circulation
Advanced	• Local and remote setting of the temperature • Auto-changeover between heat and cool mode (System Auto) • Compressor short cycle protection delay of 2 minutes • Failure protection by cutting off all circuit relays thanks to the Super Capacitor
Auto Mode Deadband	• 1.5° C, 3° F
Temp. Sensing Range	• −10°C to 125°C
Temp. Resolution	• 0.1° C, 0.2° F
Temp. Display Accuracy	• ±1°C
Temp. Setpoint Span	• 0.5° C, 1° F
Humidity Sensing Range	• 0 to 100% RH
Humidity Accuracy	• ±4% Accuracy through the range of 0% RH to 80% RH
Humidity Response Time	• 18 seconds to reach 63% of the next step value

Wireless Connectivity	
ZigBee	• ZigBee 2.4GHz IEEE 802.15.4, ZHA1.2 Profile, Router Device
Output Power	• +3dBm (up to +8dBm)
Receive Sensitivity	• -100dBm
OTA	• Optional Over-the-Air Upgradable via wifi
WiFi	• Optional

Physical Specifications	
Embedded Platform	• MCU: 32-bit Cortex M4; RAM: 192K; SPI Flash: 16M
LCD Screen	• 3.5" TFT Color LCD, 480*320 pixels
LED	• 3-color LED (Red, Blue, Green)
Buttons	• One rotary control wheel, 3 side-buttons
PIR Sensor	• Sensing Distance 5m, Angle 30°
Speaker	• Click sound
Data Port	• Micro USB
DIP Switch	• Power selection
Electrical Rating	• 24 VAC, 2A Carry; 5A Surge 50/60 Hz
Switches/Relays	• Latching type relay, 2A maximum loading • 1. 1st stage control • 2. 2nd stage control • 3. 3rd stage control • 4. Emergency Heating control • 5. Fan Control • 6. Heating/cooling Reverse Valve Control • 7. Common
Dimensions	• 160(L) × 87.4(W)× 33(H) mm
Mounting Type	• Wall Mounting
Wiring	• 18 AWG, Requires both R and C wires from the HVAC System
Operating Temperature	• 0° C to 40° C (32° F to 104° F)
Storage Temperature	• -30° C to 60° C
Certification	• FCC, CE

Products
– Comfort & Thermostat

PCT503-W Wi-Fi Programmable Communicating Thermostat **Wi Fi**

Main Features

HVAC Control

• Supports 2H/2C multistage conventional system and Heat Pump system
• One-touch AWAY button to save energy while you are on the go
• The 4-period and 7-day programming fits perfectly with your life style. Program your schedule either on the device or through the APP
• Multiple HOLD options: Permanent Hold, Temporary Hold, Back to Schedule
• Automatic heating and cooling changeover
• Fan cycle mode periodically circulates air for comfort
• Compressor short cycle protection delay
• Failure protection by cutting off all circuit relays after power outage

Information Display

• 3.5" TFT color LCD divided into two sections for better information display
• The default screen displays the current temperature/humidity, temperature set-points, system mode, and schedule period
• Display time, date and day of the week in a separate screen
• The system working status and fan status are indicated in different backlit colors (Red for heat-on, Blue for cool-on, Green for fan-on)

Unique User Experience

• Screen lights up for 20 seconds when motion is detected
• Interactive wizard guides you through the quick setup without hassles
• Intuitive and simple UI to ease the operation even without user's manual
• Smart rotary control wheel + 3 side-buttons for easy operation while adjusting temperature or navigating menus

Wireless Remote Control

• Remote control using mobile APP by connecting to cloud server via Wi-Fi connection, allowing multiple thermostats to be accessed from single APP.
• Complete technical document available to facilitate the integration with 3rd party platform
• Over-the-Air firmware upgradable

Future Upgrades

• Shows you the temperature/humidity outside or other indoor locations using remote temperature/humidity sensors
• You could choose the onboard sensor temperature, any remote sensor temperature or the average temperature to be compared with set points temperature
• Sends you notifications if the temperature gets too cold or too hot
• Auto heat cut-off at or higher than 99°F (37°C); Auto heat cut-in at or lower than 39°F (4°C)
• Equipped with both ZigBee Smart Energy and WiFi modules to interface with Smart Meter and Cloud Server at the same time

PCT503-W Technical Specifications

Compatibility	
Compatible systems	• 2-stage heater and 2-stage cooling HVAC systems • Supports natural gas, heat pump, electric, hot water, steam or gravity, gas fireplaces (24 Volts), oil heat sources • Supports any combination of systems
Heat	• Up to 2 stages
Cool	• Up to 2 stages
Aux Heat	• Up to 2 Stages
Heat Pump	• Up to 2 Stages • 1 stage + 1 aux • 1 stage + 2 aux • 2 stage + 1 aux • 2 stage + 2 aux • Dual Fuel Heat Pump • 4 stage heating (2 compressor, 2 aux heat), 2 stage cooling

Wiring Terminals Definition	
RH	• 24VAC primary for heating
RC	• 24VAC primary for cooling
C	• 24VAC common
W1	• 1st stage Primary heating relay / Aux heat
W2	• 2nd stage Secondary heating relay / Aux heat
Y1	• 1st stage Primary cooling compressor contactor
Y2	• 2nd stage Secondary cooling compressor contactor
G	• Fan relay
O/B	• Changeover valve for heat pumps.
*	• Multiple use reserved, including but not limited to: emergency heat line, humidifier control.
S	• Optional wiring module terminal to combine W and G, while reserve an extra in-wall wire to power on the thermostat

HVAC Control Functions	
System Mode	• Heat, Cool, Auto, Off, Emergency Heat (Heat Pump only)
Fan Mode	• On, Auto, Circulation
Advanced	• Local and remote setting of the temperature • Auto-changeover between heat and cool mode (System Auto) • Compressor short cycle protection delay of 2 minutes • Failure protection by cutting off all circuit relays thanks to the Super Capacitor
Auto Mode Deadband	• 1.5° C, 3° F
Temp. Sensing Range	• −10°C to 125°C
Temp. Resolution	• 0.1° C, 0.2° F
Temp. Display Accuracy	• ±1°C
Temp. Setpoint Span	• 0.5° C, 1° F
Humidity Sensing Range	• 0 to 100% RH
Humidity Accuracy	• ±4% Accuracy through the range of 0% RH to 80% RH
Humidity Response Time	• 18 seconds to reach 63% of the next step value

Wireless Connectivity	
Wi-Fi	• Wi-Fi 802.11b/g/n 2.4GHz
RF Power	• 17dBm@11b,14dBm@11g ,13dBm@11n
Sensitivity @PER	• 1M: -92dBm@8%PER • 6M: -88dBm@10%PER • 11M:-86dBm@8%PER • 54M:-72dBm@10%PER • 72.2M:- 68dBm@10%PER
OTA	• Over-the-Air Upgradable

Physical Specifications	
Embedded Platform	• MCU: 32-bit Cortex M4; RAM: 192K; SPI Flash: 16M
LCD Screen	• 3.5" TFT Color LCD, 480*320 pixels
LED	• 3-color LED (Red, Blue, Green)
Buttons	• One rotary control wheel, 3 side-buttons
PIR Sensor	• Sensing Distance 5m, Angle 30°
Speaker	• Click sound
Data Port	• Micro USB
DIP Switch	• Power selection
Electrical Rating	• 24 VAC, 2A Carry; 5A Surge 50/60 Hz
Switches/Relays	• Latching type relay, 2A maximum loading • 1. 1st stage control • 2. 2nd stage control • 3. 3rd stage control • 4. Emergency Heating control • 5. Fan Control • 6. Heating/cooling Reverse Valve Control • 7. Common
Dimensions	• 160(L) × 87.4(W)× 33(H) mm
Mounting Type	• Wall Mounting
Wiring	• 18 AWG, Requires both R and C wires from the HVAC System
Operating Temperature	• 0° C to 40° C (32° F to 104° F)
Storage Temperature	• -30° C to 60° C
Certification	• FCC

Products
– Control & Lightings

SLC601 ZigBee Power Relay
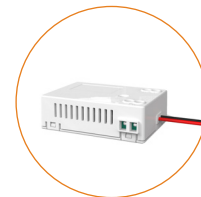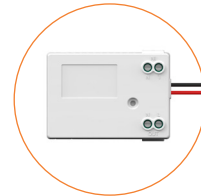
Main Features

• ZigBee HA1.2 compliant
• ZigBee ZLL compliant
• Upgrades existing lighting to a remote control lighting system (HA)
• Easy installation by simply inserting the Power Relay into the existing power line
• Extra control cables available to integrate with existing physical switch

Main Specifications

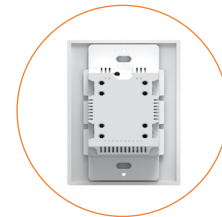|	
Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4GHz • Internal PCB Antenna • Range outdoor/indoor: 100m/30m
ZigBee Profile	• Home Automation Profile • ZigBee Light Link Profile
Operating Voltage	• AC 110 ~240V AC
Max. Load Current	• 6 Amps @ 240 VAC; 6 Amps @ 220 VAC • Load: 500W for incandescent bulb or halogenated bulb, 100W fluorescent lamp
Weight	• 42 g
Dimensions	• 39 (W) x 55.3 (L) x 17.7 (H) mm

– Control & Lightings

SLC602 ZigBee Wireless Switch

Main Features

- ZigBee HA1.2 compliant
- ZigBee ZLL compliant
- Wireless On/Off switch
- Easy to be installed or adhered anywhere in the house
- Extremely low power consumption

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4GHz • Internal PCB Antenna • Range outdoor/indoor: 100m/30m
ZigBee Profile	• Home Automation Profile • ZigBee Light Link Profile
Battery	• Type: 2 x AAA batteries • Voltage: 3V • Battery Life: 1 year
Dimensions	• Diameter: 80mm • Thickness: 18mm
Current	• Standby: ≤ 1.3 uA • Triggering: ≤ 28.5mA
Weight	• 52 g

Products
– Control & Lightings

SLC603 ZigBee Wireless Dimmer Switch
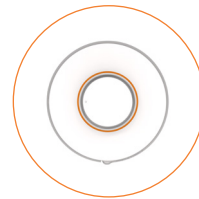
Main Features

- ZigBee HA1.2 compliant
- ZigBee ZLL compliant
- Wireless On/Off switch
- Brightness dimmer
- Color temperature tuner
- Easy to be installed or adhered anywhere in the house
- Extremely low power consumption

Main Specifications

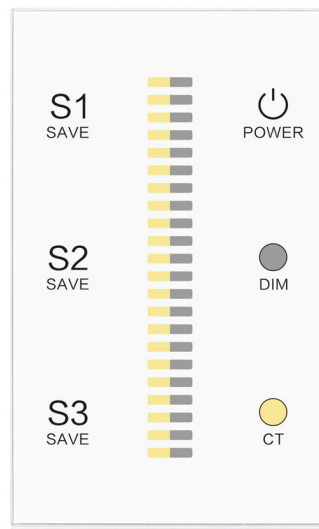|	
Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4GHz • Internal PCB Antenna • Range outdoor/indoor: 100m/30m
ZigBee Profile	• Home Automation Profile • ZigBee Lighting Link Profile
Battery	• Type: 2 x AAA batteries • Voltage: 3V • Battery Life: 1 year
Current	• Standby:≤1.3uA • Trigger: ≤28.5mA
Dimensions	• Diameter: 90.2mm • Thickness: 26.4mm
Weight	• 66 g

Products
– Control & Lightings

SLC605 ZigBee Wall Switch (US)

Main Features

- ZigBee HA 1.2 compliant
- Remote on/off control
- Extends the range and strengthens ZigBee network communication
- Enables scheduling for automatic switching
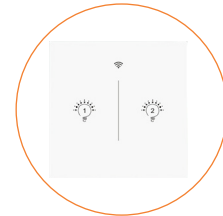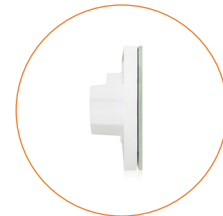
Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4 GHz • Internal PCB Antenna • Range outdoor/indoor:100m/30m
ZigBee Profile	• Home Automation Profile
Power Input	• 85~250 VAC 50/60 Hz
Operating Power	• Load Energized: < 0.7 Watts; • Standby: < 0.7 Watts
Max Load Current	• 120V 10A 1200w
Dimension	• 107 x 50 x 41 mm

Products
– Control & Lighting

SLC607 In-Wall Touch Switch (US)

Main Features

- ZigBee HA 1.2 compliant
- Remote on/off control
- Enables scheduling for automatic switching
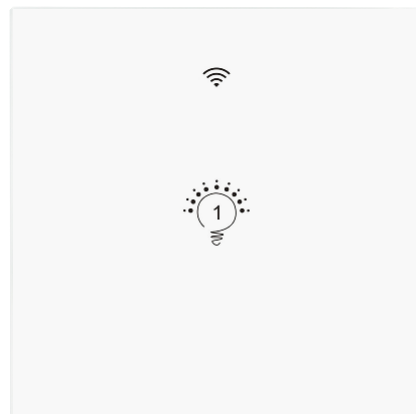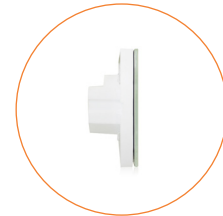- 1~3 channel on/off

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4 GHz • Internal PCB Antenna • Range indoor: 30m
ZigBee Profile	• Home Automation Profile
Power Input	• 100~277 VAC 50/60 Hz
Working temperature	• -20°C~+55°C
Max Current	• 7A x 1 channel • 5A x 2 channels • 3A x 3 channels
Size	• 115 x 69 x 24 mm

Products
– Control & Lighting

SLC617 In-wall Dimming Switch (US)

Main Features

- ZigBee HA1.2 compliant
- ZigBee ZLL compliant
- Wireless On/Off switch
- Brightness adjustment
- Color temperature tuner
- Save your Brightness setting for easy access

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4 GHz • Internal PCB Antenna • Range indoor: 30m
ZigBee Profile	• Home Automation Profile
Power Input	• 100~277 VAC 50/60 Hz
Working temperature	• -20°C~+55°C
Size	• 116 x 70 x 38 mm
Weight	• 270g

Products
– Control & Lighting

SLC608   In-Wall Touch Switch (EU)

Main Features

- ZigBee HA 1.2 compliant
- Remote on/off control
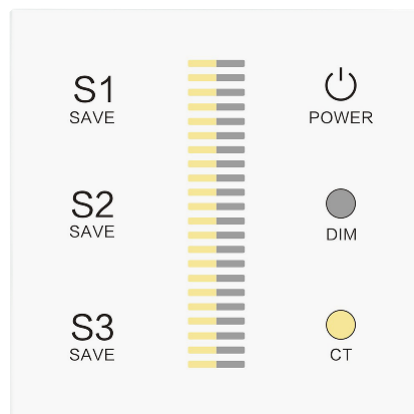- Enables scheduling for automatic switching
- 1~3 channel on/off

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4 GHz • Internal PCB Antenna • Range indoor: 30m
ZigBee Profile	• Home Automation Profile
Power Input	• 100~240VAC 50/60 Hz
Working temperature	• -20°C to 55°C
Max Current	• 7A x 1 channel • 5A x 2 channels • 3A x 3 channels
Size	• 86 x 86 x 37 mm

Products
– Control & Lighting

SLC618   In-wall Dimming Switch (EU)

Main Features

- ZigBee HA1.2 compliant
- ZigBee ZLL compliant
- Wireless On/Off switch
- Brightness adjustment
- Color temperature tuner
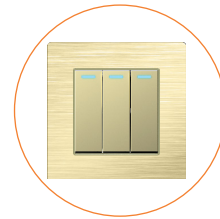- Save your Brightness setting for easy access

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4 GHz • Internal PCB Antenna • Range indoor: 30m
ZigBee Profile	• Home Automation Profile
Power Input	• 100~240VAC 50/60 Hz
Working temperature	• -20°C~+55°C
Size	• 86 x 86 x 37 mm
Weight	• 205g

Products
– Control & Lighting

SLC610 In-wall Mechanical Switch (EU)

Main Features

- ZigBee HA 1.2 compliant
- Remote on/off control
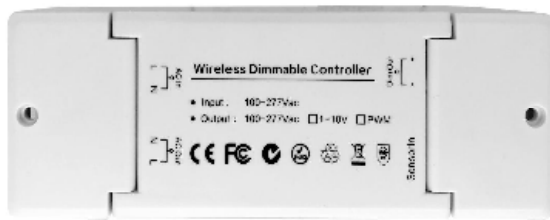- Enables scheduling for automatic switching
- 1~3 channel on/off

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4 GHz • Internal PCB Antenna • Range outdoor/indoor:100m/30m
ZigBee Profile	• Home Automation Profile
Power Input	• 220 VAC 50/60 Hz
Power Rating	• 800V for every channel
Working temperature	• -30°C to 70°C
Size	• 86 x 86 x 47 mm

SLC611

LED Lighting Driver
Dimming 0~10V

Main Features

• ZigBee HA 1.2 compliant
• Remote on/off control
• 0~10 V Dimmable
• Enables scheduling for automatic switching
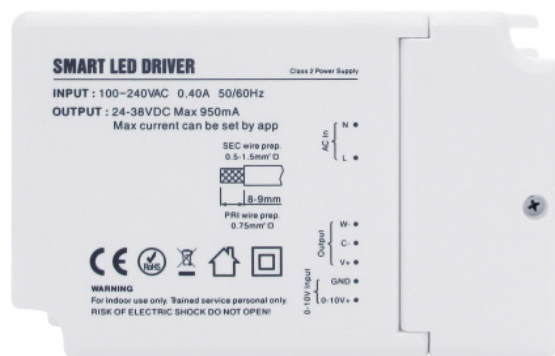
Note: work with dimmable LED lights

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4 GHz • Internal PCB Antenna • Range outdoor/indoor:100m/30m
ZigBee Profile	• Lighting Link Profile
Power Input	• 110~277 VAC • 20mA
Output Current	• 20mA
Operation temperature	• -40°C to 60°C
Dimension	• 140 x 50 x30 (L) mm
Weight	• 120 g

Products
– Control & Lighting

SLC612 LED Lighting Driver - EU Dimming/CCT

Main Features

- ZigBee HA 1.2 compliant
- Remote on/off control
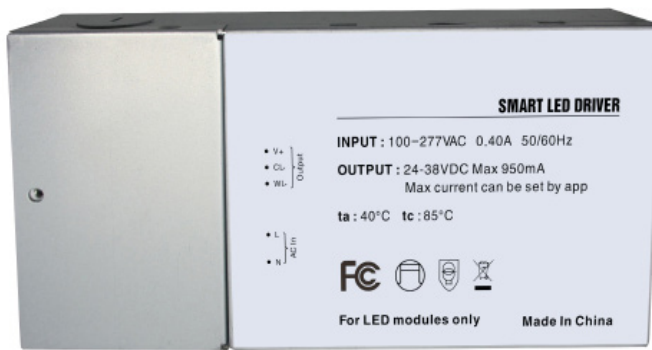- Single color dimmable
- Enables scheduling for automatic switching

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4 GHz • Internal PCB Antenna • Range outdoor/indoor:100m/30m
ZigBee Profile	• Home Automation Profile • Lighting Link Profile
Power Input	• 110~277 VAC 50/60Hz
Output Current	• 950mA MAX
Output DC	• 24~38V
Working Temperature	• -40°C to 60°C
Size	• 118 x 74 x 32 (L) mm
Weight	• 185 g

Products
– Control & Lighting

SLC613 LED Lighting Driver - US Dimming/CCT

Main Features

- ZigBee HA 1.2 compliant
- ZigBee ZLL compliant
- Remote on/off control
- Single color dimmable
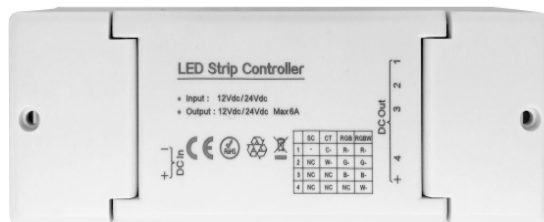- Enables scheduling for automatic switching

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4 GHz • Internal PCB Antenna • Range outdoor/indoor:100m/30m
ZigBee Profile	• Home Automation Profile • Lighting Link Profile
Power Input	• 100-277 VAC MAX 0.40A 50/60 Hz
Output	• 24-38VDC MAX 950mA
Operating Temperature	• -40ºC to 85 ºC
Size	• 190 x 86 x 37 (W) mm
Weight	• 418 g

Products
– Control & Lighting

SLC614

LED Lighting Driver
Dimming/CCT/RGB/RGBW

Main Features

- ZigBee ZLL compliant
- Remote on/off control
- Applies to strip light control
- Enables scheduling for automatic switching

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4 GHz • Internal PCB Antenna • Range outdoor/indoor:100m/30m
ZigBee Profile	• Lighting Link Profile
Power Input/Output	• DC 12/24V
MAX power	• 144W
Working Temperature	• -40ºC to 60 ºC
Dimension	• 105 x 73 x28 (L) mm
Weight	• 140 g

Products
– Control & Lightings

LED622 ZigBee CCT Tunable LED Bulb

Main Features

- ZigBee HA 1.2 compliant
- Adjustable brightness and color temperature
- Compatible with most Luminaires
- RoHS and no Mercury
- More than 80% Energy Saving

Main Specifications

Operating Voltage	• E27 (EU): 220 - 240V • E26 (US): 120V
Operating Wattage	• 8.5 W
Lumen	• 806 lm
Average Lifetime	• 25000Hrs
Optional Base	• E27 • E26
CCT	• 2700 ~ 6000k
CRI	• Ra70 - 90
Beam Angle	• 240°
Dimensions	• Diameter: 60mm
Thickness	• 108mm
Weight	• 75 g
Mounting Type	• Mounted on bracket

Products
– Control & Lightings

RC204   ZigBee Remote Control
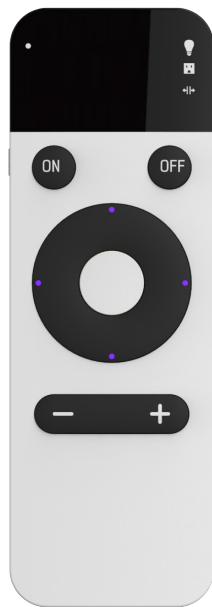
Main Features

- ZigBee HA 1.2 compliant
- ZigBee ZLL compliant
- On/Off dimming control
- Lights status feedback
- All-lights-on, All-lights-off
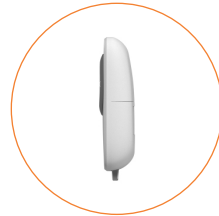- Rechargeable battery backup
- Power saving mode and auto wake-up

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4GHz • Range outdoor/indoor: 100m/30m • Antenna: Internal PCB antenna
ZigBee Profile	• Home Automation Profile • Lighting Link Profile
Battery	• 500mAh rechargeable battery (1 year battery life) • voltage: 3.7V
Current	• Standby current: ≤44uA • Trigger curruent: ≤28.5mA
Environment parameters	• Temperature: -28°C to 70°C • Humidity: up to 85% RH
Weight	• 51 g
Dimension	• 17 (W) x 45 (L) x 129 (H) mm

Products
– Control & Lightings

KF205 ZigBee Remote Control

Main Features

- ZigBee HA 1.2 compliant
- Compatible with other ZigBee products
- Remote on/off control
- Remote arm/disarm
- Low power consumption
- Easy installation
- Mini size

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating Frequency: 2.4GHz • Outdoor/Indoor range: 100m/30m
ZigBee Profile	• Home Automation Profile
Battery	• CR2450, 3V Lithium battery • Battery Life: 1 year
Current	• Standby current: ≤1.3uA • Trigger curruent: ≤28.5mA
Operating Ambient	• Temperature: -15~45°C • Humidity: up to 85% RH
Dimension	• 37.6(W) x 75.66(L) x 14.48(H) mm
Weight	• 31 g

Products
– Energy Control & Management

WSP403 ZigBee Smart Plug

Main Features

- ZigBee HA1.2 compliant
- ZigBee SEP 1.1 compliant
- Remote On/Off control, ideal for home appliance control
- Energy consumption measuring
- Enables scheduling for automatic switching
- Extends the range and strengthens ZigBee network communication
- Pass-through socket for various country standards: EU, UK, AU

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4GHz • Internal PCB Antenna • Range outdoor/indoor: 100m/30m
ZigBee Profile	• Smart Energy Profile • Home Automation Profile
Operating Voltage	• AC 100 ~ 240V
Current	• Standby current: < 0.7 Watts; • Max current : 220AC 10A 2200V
Calibrated Metering Accuracy	• ≤ 100W within ±2W • >100W within ±2%
Dimension	• 102 (L) x 64(W) x 38 (H) mm
Weight	• 125 g

Products
— Energy Control & Management

WSP404 ZigBee Smart Plug
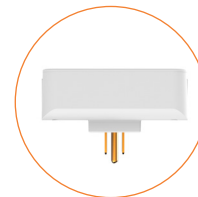
Main Features

• Complies with ZigBee HA1.2 profile to work with any standard ZHA ZigBee Hub

• Converts your home appliances to smart devices, such as lamps, space heaters, fans, window A/Cs, decorations, and more, up to 1800W per plug

• Controls your home devices on/off globally via the Mobile APP

• Automates your home by setting schedules to control connected devices

• Measures the instantaneous and accumulative energy consumption of the connected devices

• Switches on/off the Smart Plug manually using the toggle button on the front panel

• Slim design fits with standard wall outlet and leaves the second outlet free

• Supports two devices per plug by providing two outlets one at each side

• Extends the range and strengthens ZigBee network communication

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
ZigBee Profile	• Home Automation Profile
Outdoor/indoor range	• 100m/30m
Operating Voltage	• AC 100 ~ 240V
Rated Current	• 10A
Calibrated Metering Accuracy	• ≤ 100W(within ±2W) • > 100W(within ±2%)
Dimensions	• 130 (L) x 55(W) x 33 (H) mm
Weight	• 120 g

Products
– Energy Control & Management

PC301 ZigBee Power Clamp

Main Features

- ZigBee HA 1.2 compliant
- Supports two current transformers
- Measures real time and total energy consumption
- Suitable for both residential and commercial application
- Lightweight and easy to install

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4GHz • Outdoor/Indoor range: 100m/30m
ZigBee Profile	• Home Automation Profile
Operating Voltage	• AC 100~240V
Max. Load Current	• 60 Amps 6600W @ 110VAC; • 60 Amps 13800W @ 220 VAC
Operating Ambient	• Temperature: -10°C to +50°C • Humidity: up to 85% non-condensing
Measurement Accuracy	• ±5%
Dimension	• 93(W) x 65.5(L) x 33(H) mm (with bracket

Products
– Energy Control & Management

PC311 ZigBee 3-phase Power Clamp
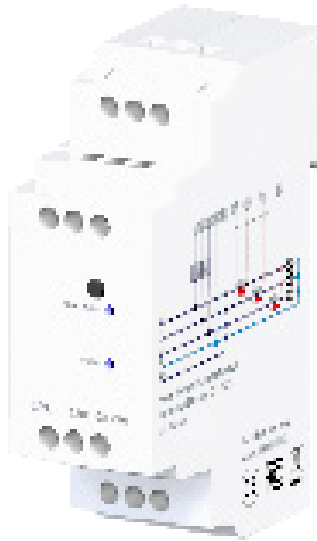
Main Features

- ZigBee HA 1.2 compliant
- Three current transformers
- Monitor up to three separate power lines / loads
- Measures real time and total energy consumption
- Suitable for both residential and commercial application
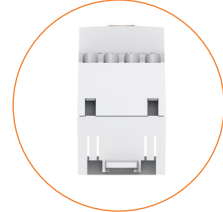- Lightweight and easy to install

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
ZigBee Profile	• Home Automation Profile
Range outdoor/indoor	• 100m/30m
Operating Voltage	• 100-240 Vac / 45-65 Hz
Electrical parameters measured	• I_{rms}, V_{rms}, Active Power & Energy, • Reactive Power & Energy
Ranges of measured parameters	• Voltage: 0 to 240 Vac between phase and Neutral • Current: up to 125 Amps
Calibrated Metering Accuracy	• <1% of reading measurement error
Dimension	• 80(L) x 27.8(W) x 58.3(H) mm
Weight	• 85g

Products
– Energy Control & Management

CB431 ZigBee Smart Switch

Main Features

- ZigBee HA 1.2 compliant
- Remote on/off control
- Energy consumption measuring
- Enables scheduling for automatic switching
- Remotely control from the mobile phone
- Easy installation

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
ZigBee Profile	• Home Automation Profile
Range outdoor/indoor	• 100m/30m
Power Input	• 100-240VAC 50/60Hz
Max Load Current	• 220VAC 16A 3520W (with measurement) • 220VAC 20A 4400W (without measurement)
Calibrated Metering Accuracy	• ≤ 100W (less than ±2W) • >100W (less than ±2%)
Dimension	• 85(L) x 40(W) x 61.5(H) mm
Weight	• 102g

Products
– Energy Control & Management

LC421   ZigBee Load Control

Main Features

- ZigBee HA 1.2 compliant
- Controls heavy duty equipment remotely using mobile phone
- Automates your home by setting schedules
- Switches on/off the circuit manually using the toggle button
- Suitable for pool, pump, space heater, air conditioner compressor etc.

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
ZigBee Profile	• Home Automation Profile
Range outdoor/indoor	• 100m/30m
Load Current	• Max current: 220VAC 25a 5500W • Standby: <0.7W
Operating Voltage	• AC 100~240v, 50/60Hz
Dimension	• 171(L) x 118(W) x 48.2(H) mm
Weight	• 300g

Products
– Security & Sensors

DWS312   ZigBee Door/Window Sensor

Main Features

- ZigBee HA 1.2 compliant
- compatible with other ZigBee products
- Easy installation
- Tamper protection protects the enclosure from being open
- Low battery detection
- Low power consumption

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating Frequency: 2.4GHz • Outdoor/Indoor range: 100m/30m
ZigBee Profile	• Home Automation Profile
Battery	• CR2450, 3V Lithium battery • Battery Life: 1 year
Current	• Standby: 1.3uA • trigger:≤ 28.5mA
Operating Ambient	• Temperature: -15°~45°C • Humidity: up to 85% RH
Dimension	• Sensor: 6.2(W) x 3.3(L) x 1 4(H) cm • Magnetic part: 5.7(W) x 1(L) x 1.1(H) cm
Weight	• 41 g

PIR303   ZigBee Motion Sensor

Main Features

- ZigBee 1.2 HA Compliant
- Low consumption ZigBee module
- High stability
- Extra-thin luxury design
- Long battery life
- Low battery warning

Main Specifications

Operating Voltage	• DC3V Lithium battery
Current	• Standby Current: ≤16uA • Alarm Current: ≤30mA
Installation Height	• 2.1 m
Detecting	• Distance: 9-12 m • Angle: 110 degrees
Operating Ambient	• Temperature: -15 ~ 50C • Humidity: maximum 95%RH (no congelation)
Networking	• Mode: ZigBee Ad-Hoc Networking • Distance: ≤ 100 m (open area)
Dimension	• 65 x 65 x 28 mm

Products
– Security & Sensors

PIR313 — ZigBee Multi-Sensor
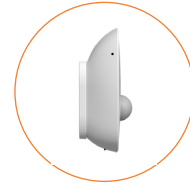
Main Features

- ZigBee HA 1.2 Compliant
- PIR motion detection
- Temperature, humidity measuring
- Illuminance measurement (upcoming)
- Vibration detection (upcoming)
- Long battery life
- Low battery alerts
- Anti-tamper
- Sleek design

Main Specifications

Operating Voltage	• DC 3V (2*AA battery)
Rated Current	• Standby Current: ≤40uA • Alarm Current: ≤30mA
Illuminance (Photocell)	• Range: 0 ~128 klx • Resolution: 0.1 lx
Temperature	• Range: -10~85° • Accuracy: ± 0.4°
Humidity	• Range: 0~80% RH • Accuracy: ± 4% RH
Detecting	• Distance: 6m • Angle: 120°
Battery Life	• All-in-one version: 1 years
Networking	• Mode: ZigBee Ad-Hoc Networking • Distance: ≤ 100 m (open area)
Operating Ambient	• Temperature: -10 ~ 50°C • Humidity: maximum 95%RH (no congelation)
Anti-RF Interference	• 10MHz - 1GHz 20 V/m
Dimension	• 83(L) x 83(W) x 28(H) mm

Products
— Security & Sensors

SIR216 ZigBee Siren

Main Features

• DC-powered
• Transmits AC power failure, low battery and supervisory signals
• Receives signal from the control panel to activate sound or to emit entry/exit delay beeps
• Quick and simple installation

Main Specifications

ZigBee Profile	• ZigBee Pro HA 1.2
RF Characteristics	• Operating frequency: 2.4GHz
Power Voltage	• 5V/1A Power Adapter
Battery	• 3.7V liuthium battery
Current	• Standby current: <17mA • Alarm Current: <400mA
Operating Ambient	• Working temperature: -10°C ~ + 60°C • Environment humidity: <95% RH
Networking	• ZigBee Ad-Hoc Networking
Dimensions	• 102 (L) x 64(W) x 38 (H) mm
Weight	• 88x55mm

Products
– Security & Sensors

SD324 ZigBee Smoke Detector

Main Features

- ZigBee HA compliant
- Low consumption ZigBee module
- Mini appearance design
- Low power consumption
- Sound alarm up to 85dB/3m
- Lower power warning
- Allows mobile phone monitoring
- Tool-free installation

Main Specifications

Operating Voltage	• DC3V lithium battery
Current	• Static Current: ≤20uA • Alarm Current: ≤60mA
Sound Alarm	• 85dB/3m
Operating Ambient	• Temperature: -10 ~ 50C • Humidity: maximum 95%RH
Networking	• Mode: ZigBee Ad-Hoc Networking • Distance: ≤ 100 m
Dimension	• 60(W) x 60(L) x 49.2(H) mm

WLS306 ZigBee Water Leak Detector

Main Features

- ZigBee 1.2 HA compliant
- Low consumption ZigBee module
- Low battery consumption
- Separate design of detector and sensor
- Tool-free installation

Main Specifications

Operating Voltage	• 2 x AAA battery
Current	• Static Current: ≤5uA • Alarm Current: ≤30mA
Sound Alarm	• 85dB/3m
Operating Ambient	• Temperature: -10 ~ 50C • Humidity: maximum 95%RH
Networking	• Mode: ZigBee Ad-Hoc Networking • Distance: ≤ 100 m (in the open area)
Dimension	• 60(W) x 30(L) x 11.8(H) mm

Products
– Security & Sensors

THS307 ZigBee Temperature Humidity Sensor

Main Features

• ZigBee 1.2 HA compliant
• Low battery consumption
• Low battery warning sends to the phone
• Low consumption ZigBee module
• Digital high-precision temperature and humidity sensor

Main Specifications

Working voltage	• DC3V lithium battery
Battery life	• 1-3 years
Static current	• ≤10uA
Operating Ambient	• Temperature: -10 ~ 50C • Humidity: maximum 95%RH
Networking	• Mode: ZigBee Ad-Hoc Networking • Distance: ≤ 100 m (in the open area)
Dimension	• 60(W) x 60(L) x 20.8(H) mm

GD334 ZigBee Gas Detector

Main Features

- ZigBee HA 1.2 compliant
- Adopts high stability semi-conductor sensor
- Works with other system easily
- Monitor remotely using mobile phone
- Low consumption ZigBee module
- Low battery consumption
- Tool-free installation

Main Specifications

Working Voltage	• AC 100V~240V
Average consumption	• < 1.5W
Sound Alarm	• Sound: 75dB (1 meter distance) • Density: 6%LEL ± 3%LEL (natural gas)
Operating Ambient	• Temperature: -10 ~ 50C • Humidity: ≤95% RH
Networking	• Mode: ZigBee Ad-Hoc Networking • Distance: ≤ 100 m (open area)
Dimension	• 79(W) x 68(L) x 31(H) mm (not including plug)

CMD344 ZigBee Carbon Monoxide (CO) Detector

Main Features

- ZigBee HA 1.2 compliant
- Works with other system easily
- Low consumption ZigBee module
- Low battery consumption
- Receives alarm notification from phone
- Low battery warning
- Tool-free installation

Main Specifications

Operating Voltage	• CR2450 lithium battery
Current	• Static Current: ≤20uA • Alarm Current: ≤60mA
Sound Alarm	• 85dB/1m
Operating Ambient	• Temperature: -10 ~ 50C • Humidity: maximum 95%RH
Networking	• Mode: ZigBee Ad-Hoc Networking • Distance: ≤ 100 m (in the open area)
Dimension	• 54(W) x 54(L) x 45(H) mm

Products
– Security & Sensors

PB206 ZigBeePanic Button

Main Features

- ZigBee HA 1.2 compliant
- Compatible with other ZigBee products
- Press the panic button to send notification to the phone
- Low power consumption
- Easy installation
- Mini size

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating Frequency: 2.4GHz • Outdoor/Indoor range: 100m/30m
ZigBee Profile	• Home Automation Profile
Battery	• CR2450, 3V Lithium battery • Battery Life: 1 year
Current	• Standby: ≤ 1.3uA • Trigger: ≤28.5mA
Operating Ambient	• Temperature: -10~45°C • Humidity: up to 85% non-condensing
Dimension	• 37.6(W) x 75.66(L) x 14.48(H) mm
Weight	• 31 g

Products
– Video Surveillance

IPC804 IP Camera - Standalone **Wi Fi**

Main Features

- 1.0 Megapixel 720P HD progressive scan
- IR-CUT that automatically switches day and night
- Supports Two-way voice intercom
- Mobile phone controllable and receive notifications remotely
- Support ONVIF protocol and SDK for third party integration

Main Specifications

Camera	• Lens: 1 megapixel • Prime lens: 3.6 mm
Local Storage	• Support maximum 32 GB TF card
Network Protocol	• TCP/IP, HTTP, DHCP, SSL, DDNS, FTP, NTP, RTSP, ONVIF
Network Wi-Fi	• Built-in Wi-Fi connectivity that can automatically search nearby Wi-Fi
Alarm	• Supports motion detection, sound alarm when network is disconnected, memory is full etc.
Frame Rate	• 720p @30 fps, 480P @25 fps
Power Supply	• USB Port DC 5V ±10%
Working Environment	• -10~+60 °C (≤95% RH)
Dimensions	• 70(L) x 115(H) x 35(W) mm

Products
– Video Surveillance

IPC805 IP Camera Fixed **WiFi**

Main Features

- 1.0 Megapixel 720P HD progressive scan
- IR-CUT that automatically switches day and night
- Supports Two-way voice intercom
- Mobile phone controllable and receive notifications remotely
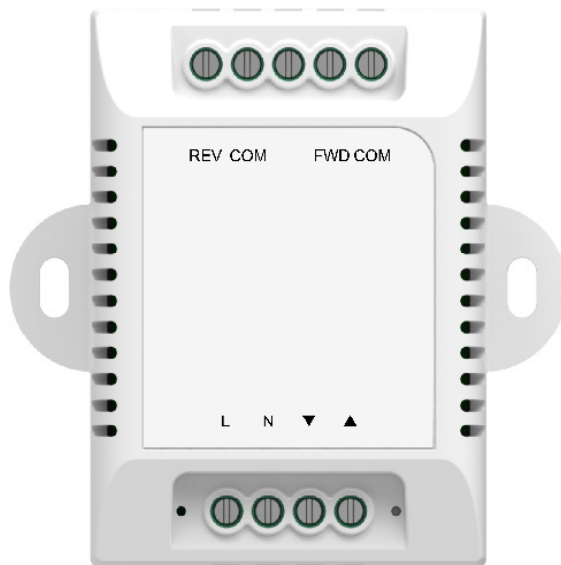- 110 degree Wide Angle View
- Motion detection (upcoming)

Main Specifications

Camera	• Type: Fixed focus • Aperture: F2.5 • Effective Focal Length: f=2.8mm • View Angle: 110°
Storage media	• Internal memory: 16MB SPI • External memory: Micro SD, up to 32GB
Wirless standard	• IEEE 802.11 b/g/n
Interface	• USB: Micro USB • Power adapter: 5V/1.0A
Display Resolution	• 1280x720 @25fps
Main Features	• Internet Live Video/Monitoring • 720P Video Record • IR Night Vision • Motion Detection • Two-way Audio Talk • 110 degree Wide Angle View • P2P Network • Free APP on App Store/Google Play
File Format	• Movie: H.264 • Photo: JPG
Dimension(s)	• 116.7*68*29.3 mm

PR412   ZigBee Curtain Control

Main Features
• ZigBee HA 1.2 compliant
• Remote open/close control
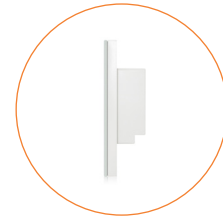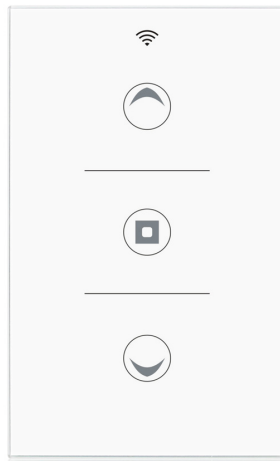• Extends the range and strengthens ZigBee network communication

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4 GHz • Internal PCB Antenna • Range outdoor/indoor:100m/30m
ZigBee Profile	• Home Automation Profile
Power Input	• 100~240 VAC 50/60 Hz
Load Current	• Max load current: 220 AC 6A 1320 V • Standby: 0.7 W
Dimension	• 64 x 45 x 15 (L) mm
Weight	• 77 g

Products
— Accessories

PR413   ZigBee Curtain Control (US)

Main Features

- ZigBee HA 1.2 compliant
- Open/close the curtain remotely
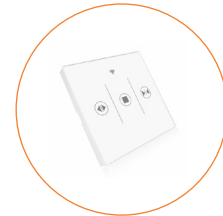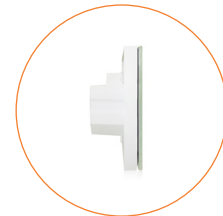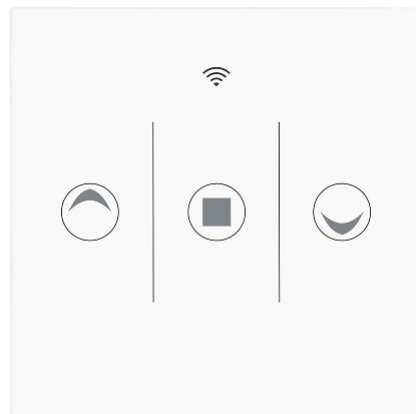- Extends the range and strengthens ZigBee network communication

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4 GHz • Internal PCB Antenna • Range indoor: 30m
ZigBee Profile	• Home Automation Profile
Power Input	• 100~277 VAC 50/60 Hz
Working temperature	• -20°C~+55°C
Size	• 115x69x24 mm
Weight	• 205g

Products
— Accessories

PR414 ZigBee Curtain Control (EU) 🔆 Light

Main Features

• ZigBee HA 1.2 compliant
• Open/close the curtain remotely
• Extends the range and strengthens ZigBee network communication

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4 GHz • Internal PCB Antenna • Range indoor: 30m
ZigBee Profile	• Home Automation Profile
Power Input	• 100~240VAC 50/60 Hz
Working temperature	• -20°C~+55°C
Size	• 86x86x37 mm
Weight	• 150g

Products
– Accessories

BST317 Bluetooth Smart Thermometer

Main Features

- Body temperature measurement
- Real-time measurement results can be transmitted and stored in the Cloud
- Sends data to mobile phone
- Alarm threshold can be set freely
- Automatic alarm comes from mobile phone
- Alarm when the device is far from mobile phone
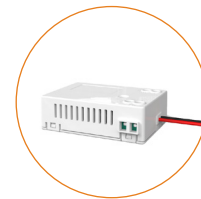- Slim design that brings more personal comfort

Main Specifications
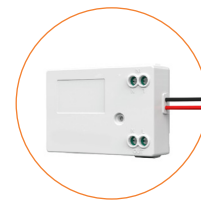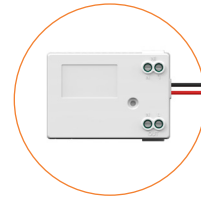
Battery	• CR2016
Working Environment	• 10~60°C
Accuracy	• 0.1°C
Measurement	• 32~44°C
Possible error	• ≤ 0.12°C
Measurement unit	• °C
Weight	• 93 g
Dimension	• R30.5 x 8.5 mm

SAS451 Access Control Module

Main Features

• ZigBee HA1.2 compliant
• Upgrades existing electrical door to a remote control door.
• Easy installation by simply inserting the Access Control Module into the existing power line.
• Compatible with most electrical doors.

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4GHz • Internal PCB Antenna • Range outdoor/indoor: 100m/30m
ZigBee Profile	• Home Automation Profile • ZigBee Light Link Profile
Operating Voltage	• DC 6-24V
Operating Current/ MAX Current	• 30 mA 12V • 70 mA 12V
Weight	• 42 g
Dimensions	• 39 (W) x 55.3 (L) x 17.7 (H) mm

Products
— Accessories

WSP403 - Lite

ZigBee Range Extender

Main Features

• ZigBee HA Compliant
• Provides expanded network range and adds redundancy to wireless network
• Extends the range and strengthens ZigBee network communication
• Pass-through socket for various country standards: EU, UK, AU

Main Specifications

Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4GHz • Internal PCB Antenna • Range outdoor/indoor: 100m/30m
ZigBee Profile	• Smart Energy Profile • Home Automation Profile
Operating Voltage	• AC 100 ~ 240V
Dimensions	• 102 (L) x 64(W) x 38 (H) mm
Weight	• 113 g

Products
– In-Home Display

IHD701   ZigBee 3" In-Home Display
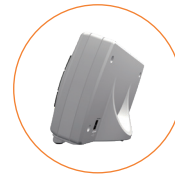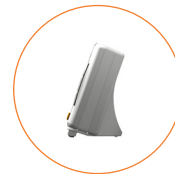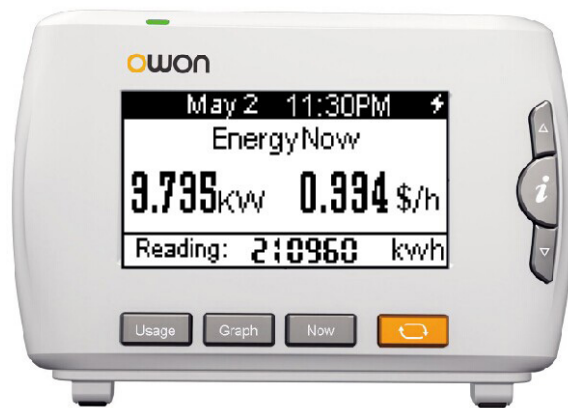
Hardware and Firmware Highlights

- ZigBee SEP1.1 compliant
- Smart meter interoperability
- Powerful CPU for complicated calculation
- Mass storage capacity for historic data
- Dot matrix LCD screen for flexible UI application
- Sleep or Power Saving mode
- Backup Li-ion battery

IHD Features

- Real-time energy tracking both in data and graph
- Dynamic pricing information
- Accumulative energy usage tracking
- Historic data and graph display
- User-defined alerts for energy usage threshold
- Utility message and notification display
- Desktop calendar with date and time display
- Temperature and humidity display

Main Specifications

|	
MCU	• ARM Cortex-M3
Data Storage Capacity	• TF Card: 8G
Wireless Connectivity	• ZigBee 2.4GHz IEEE 802.15.4
RF Characteristics	• Operating frequency: 2.4GHz • Internal PCB Antenna • Range outdoor/indoor: 100m/30m
Smart Meter Interoperability	• SEP1.1, SMETS • Trilliant, Silver Spring, Itron, Siemens
Data Interfaces	• Micro USB port
LCD Screen	• 3" Dot Matrix LCD • 128 x 64 pixels
Built-in Li-ion Battery	• 500 mAh (up to 4 hours)
Power Supply	• Power adapter input: AC 100 ~ 240V • Power adapter output: DC 5V • Rated power consumption: 1W
Dimensions	• 120(W) x 22(L) x 76 (H) mm
Weight	• 186 g
Mounting Type	• Desktop

ZigBee Smart Home Kits

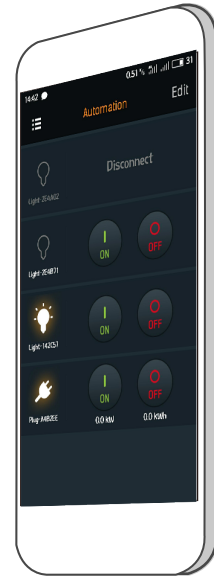## Smart Home Starter Kit - HASS 6000A

Make your home a smarter place

Cloud Server

LED Bulb

Wireless Switch

Smart Plug

Smart Gateway

Door/Window Sensor

Smart Phone

Available on the **App Store**

Get it on **Google play**

- Plug & Play to build your Smart Home in a few minutes.
- Start your Smart Home journey with minimal effort and investment.
- Gradually build up a complete Smart Home with up to 50 various devices under your roof.

In the Box

Home Automation Gateway x 1	LED Bulb x 1	Wireless Switch x 1	Smart Plug x 1	Door/Window Sensor x 1
• ZigBee HA coordinator	• ZigBee enabled	• ZigBee enabled	• ZigBee enabled	• ZigBee enabled
• WPS for quick WiFi connection	• Compatible with most luminaires	• Remote on/off switch	• Remote On/Off control	• Easy mounting
• Accessible from cloud and local	• On/Off dimming	• Easy to install	• Run on schedule	• Long battery life
• OTA firmware upgradable	• Tunable white	• Long battery life	• Energy measuring	• Low battery warning

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Main Features

Mobile APP	Smart Plug	Schedule	Security	Lighting
Use your mobile phone to monitor and control your home anytime, anywhere	Appliances remote control and energy management	Schedule your lighting and appliance working hours	Immediate notification when someone breaks in	Remotely turn your lights on/off with your mobile phone

Smart Lighting Kit - HASS 7000

Brighten your home within a blink

Available in our Supreme Kit

Smart Gateway   Cloud Server   Smart Phone

Desk Lamp

Ceiling Light

Tunable White LED   Dimmer Switch   Mini Remote

Floor Lamp

Corridor Lamp

- Plug & Play to convert your Smart Lighting in a minute.
- Dimmable and tunable white LED.
- Turn on/off your lights individually or all together (using the Mini Remote).
- Use Smart Gateway to control your lighting from anywhere using your mobile phone.

In the Box

Tunable White LED Bulb

- ZigBee enabled
- Compatible with most luminaires
- Dimmable and tunable white
- More than 80% energy saving

Dimmer Switch & CCT Tuner

- ZigBee enabled
- On/Off dimmer switch
- Color temperature tuner
- Easy to install

Remote Control

- ZigBee enabled
- Control up to 4 LED bulbs
- On/Off dimmer switch
- Color temperature tuner
- Lights status feedback
- All-lights-on, All-lights-off
- Rechargeable battery backup

Home Automation Gateway

- ZigBee HA coordinator
- WPS for quick WiFi connection
- Accessible from cloud and local
- OTA firmware upgradable

HASS 7000A (Starter Kit)

X1   X1

HASS 7000B (Elite Kit)

X2   X2   X1

HASS 7000C (Supreme Kit)

X4   X4   X1   X1

Main Features

Wireless Control

Use wireless switches and remote control to control your LED bulbs anywhere in your home

Dimmable Light

Rotate to set the most comfortable brightness for different scenario

Color Temperature

Personalize your lighting from white to warm (2700K~6000K)

Energy Saving

Save 80% energy at same brightness

Mini Remote Control

Multi-functional remote control gives you extra freedom and much more…

Mobile APP

Use your mobile phone to monitor and control your lighting anytime, anywhere

Certificates and Partners

Certificate

ISO 9001:2008

ZigBee Alliance

c UL us LISTED

FC

CE

RoHS

Memberships & Affiliates

ZigBee Alliance

Available on the App Store

Google play

openADR ALLIANCE

USNAP ALLIANCE

Technical Partners

Trilliant

Silver Spring NETWORKS

Itron

efergy

chai energy

SIEMENS

威胜集团 Wasion Group

hydro one

NARI

sentec

TeleChips

SILICON LABS

HOLLEY 华立

HUAWEI

FARAB Energy & Water Projects

ember

TEXAS INSTRUMENTS

freescale

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北京科技大学 University of Science and Technology Beijing