Catalog
ZigBee® Product

2015

ZigBee® Certified Product

ZigBee® Member

CLEODE

Overview of products
By application areas

Comfort

- Temperature/Humidity sensor : ZHum
- Light sensor : ZLum

Energy

- Controllable plug : ZPlug Boost
- Water/Electricity meter : ZMeter

Opening

- Door lock sensor : ZLock
- Shutter actuator : ZShade
- Door/Shutter control switch : ZSC

Lihting

- Remote control/Temperature : ZRC
- Light control : ZLight

Security

- Motion detector : ZMove
- Opening detector : ZDoor
- Smoke and CO detector : ZGas
- Water leak detector : ZLeak

People

- Keyring remote control : ZKey
- Fall, pulse, alarm detector : ZCare

Software tools

- SDK : DevBee : API LibZCL multi plateform
- SDK : Embedded : API LibZCL (CC25xx)
- Network manager : CleoBee™
- Android application : AndroBee
- WiBee for Raspberry : WiBee-PI

Hardware tools

- Development:
    - ZigBee® Module: ZBee
    - Evaluation board : ZBD
- USB dongle : UBee Boost / UBee Nano
- Plateform Wifi ZigBee® : WiBee
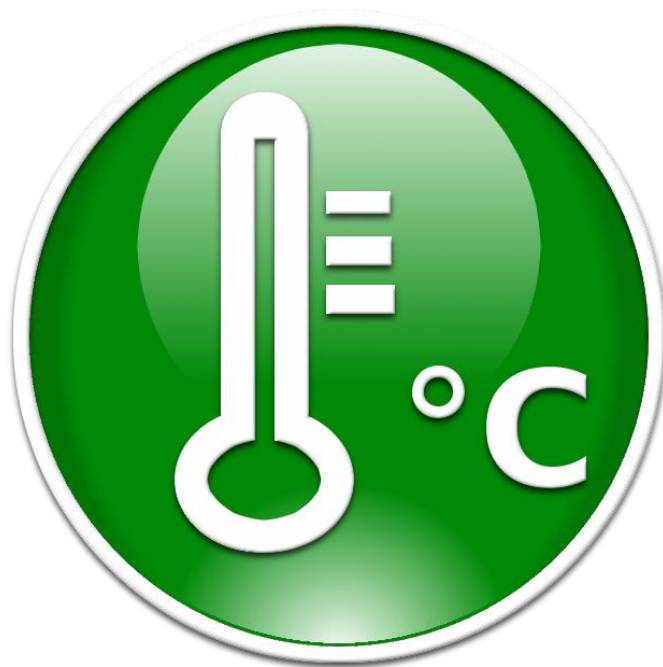- Evaluation pack : BeePack™

Various

- ZigBee® router: ZXpand

Application Domain:

Comfort

ZHUM 1.0

La domotique facile et sans fil par CLEODE

c

Détecteur de d'humidité relative et de température ZigBee®

Descriptif fonctionnel

Le produit ZHum est un capteur de température et d'humidité relative.

L'appareil fonctionne sans fil et communique les informations de détection via la norme radio fréquence Zigbee®. Le produit ZHum consomme très peu d'énergie et fonctionne sur pile bouton CR2032.

Il s'intègre aisément dans un réseau existant grâce aux fonctionnalités inhérentes à la norme ZigBee®. Il est compatible avec la stack ZigBee pro 2007, profil Home Automation Public.

Le produit est conçu pour une fixation murale par vis ou par adhésif double face.

Plusieurs produits ZHum peuvent être installés dans votre habitation.

Caractéristiques

Fonctions

- Mesure de température
- Mesure d'humidité relative
- Mode d'appairage
- Voyant de visualisation d'état
- Surveillance de la batterie
- Compatibilité stack pro 2007 profil "Home Automation Public"

Conformités

CE | Répond aux normes et directives établies par les conventions européennes

Home | Répond à la norme "Home Automation" établie par l'alliance ZigBee®

Données techniques

Poids	30 g (hors batterie)
Dimensions	51,5/27,5/15 mm
Alimentation	Pile 3V CR2032
Autonomie	> à 1 an
Plages de mesure	Humidité relative : 0 à 100% Température : -40 à 125°C
Précisions	± 3% (max), 0-80 % HR ± 0,4°C (max), -10 à 85°C

ZLUM 1.0

Easy and wireless Home Automation by CLEODE

3 700571 800159

ZigBee® Light Sensor
Functional description

Zlum product is a light sensor for detecting the light level in a room.

The unit operates wirelss and communicates information via the standard detection Zigbee® radio frequency. Zlum uses very little energy and works with a CR2032 battery.

It's easily integrated into an existing network, due to functionalities inherent to the ZigBee®. It is compatible with the ZigBee stack pro 2007.

The product is designed for wall fixing with screws or double sided adhesive.

Many Zlum products can be installed in your home.

Specifications

Key Features

- Measuring the brightness
- Pairing mode
- Status LED
- Embedded battery supervisor
- Compatibility stack pro 2007 profil "Home Automation Public"

Conformtity

C€ — Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.

Technical Data

Weight	30 g (without battery)
Power	CR2032 3V battery
Autonomy	Up to 1 year
Mesuring range	1-65536 Lux

Energy

Application Domain:

Energy

ZPLUG BOOST 5.14

Easy and wireless Home Automation by CLEODE

3 700571 800074

ZigBee® Power Outlet
Functional description

ZPlug Boost is a wireless Power Outlet which can be switched On/Off by Zigbee™ protocol.

ZPlug Boost can commute 16A devices on 220V/230V.

ZPlug Boost measures the instantaneous power and cumulated consumption of the connected device.

User can configure the reporting of consumption with a Zigbee™ manager (cf. CleoBee™)

ZPlug Boost is a Zigbee™ router with amplified signal. Then, with it, you can expand the network to cover your entire house.

Specifications
Key features

- Can commute 220V device up to 16A
- Instantaneous and cumulated consumption measuring
- Zigbee™ router with amplified signal
- Pairing mode
- Manual switching possible
- Compliant with the Stack Pro 2007 "Home Automation

Conformités

CE   Meets European consumer safety, health and environmental requirements.

Technical Data

Weight	160 g
Power	220V 50Hz French Standards
Commutation	Up to 16A on 220V
Output power (max)	Up to 20 dBm
Accuracy measurement	+/-1% of full scale
Wireless scope	+3,3 dBm standard + 10 dBm Boost option

ZMETER 2.0

Easy and wireless Home Automation by CLEODE

3 700571 800050

ZigBee® Consumption Meter
Functional description

Without modify your installation (electric or water), ZMeter measures the instantaneous power and cumulated consumption of the connected device.

ZMeter is compliant with Zigbee Pro 2007 stack and can be easily add in an existing network.
ZMeter is very low power and works with two AAA batteries.
This product can be fixed on the wall with screws or sticky tape.

User can configure the reporting of consumption with a Zigbee™ manager (cf. CleoBee™).

Specifications
Key Features

- Instantaneous and cumulated consumption measuring
- Pairing mode
- State LED
- Embedded battery supervisor
- Compliant with the Stack Pro 2007 "Home Automation" Public Profile

Conformtity

Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.

Technical Data

Weight	60 g (without battery)
Power	2 AAA batteries
Battery life	Up to 1 year
Measurement	73/42/34 mm
Options	Connectors for connec water meter

Application Domain:
Opening

ZLOCK 1.0

Easy and wireless Home Automation by CLEODE

3 700571 800050

ZigBee® Door Lock
Functional description

The product ZLock is a Zigbee™ module to command a door lock 12V or 24V.

The output supplied with 12V or 24V according to the power supply used can unlock the lock of a door.

User can configure it with a Zigbee™ manager (Cf. CleoBee™) and can manage it with a remote control (Cf. ZSC).

ZLock is also a Zigbee™ router. Then, with it, you can expand the network to cover your entire house.

Specifications

Key Features

- Can commute up to 3A
- Pairing mode
- ZigBee® router
- Compliant with the Stack Pro 2007 "Home Automation" Public Profile

Conformity

Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.

Technical Data

Weight	60g
Power	Up to 24V
Measurement	54x52x32 mm

ZSHADE 1.0

Easy and wireless Home Automation by CLEODE

`3 700571 800173`

ZigBee® Command of Engine of Roller Shutter

Functional description

The product ZShade is a Zigbee™ module to manage engine of roller shutter or blind. It is designed to be integrated as close to the engine.

It is meant to control a motor for open, close or stop any type of the roller shutter or blind. It can commute all non-radio motors (with up and down outlet lines) 3A/230V 50-60Hz with a button stop.

User can configure it with a Zigbee™ manager (Cf. CleoBee™) and can manage it with a remote control (Cf. ZSC).

ZShade is also a Zigbee™ router. Then, with it, you can expand the network to cover your entire house.

Specifications

Key Features

- Can commute 230V up to 3A
- Up, down and stop the rpller shutter
- ZigBee® router
- Stade LED
- Pairing mode
- Compliant with the Stack Pro 2007 "Home Automation" Public Profile

Conformity

Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.

Technical Data

Weight	60g
Power	85-263 V 50-60 Hz
Commutation	Up to 3A / 230V
Measurement	44/44/25 mm

ZSC 2.0

Easy and wireless Home Automation by CLEODE

3 700571 800166

ZigBee® Control Switches
Functional description

The remote control ZigBee ™ ZSC allows a user to pilot different systems of opening such as a roller shutter, an electric door or a portal.

It also integrates a sensor of digital temperature allowing measuring the ambient temperature and sending on the network..

ZSC is compliant with Zigbee Pro 2007 stack and then it can be easily plug in an existing network..

ZSC is fully configurable with a Zigbee™ manager (cf. CleoBee™). Several ZSC can be installed at home to monitor your house temperature.

ZSC is very low power and works with one battery CR2032

The box is designed for wall mounting, with screws or double sided adhesive.

Specifications

Key Features

- 5 switches
- Temperature sensor
- Pairing mode
- State LED
- Embedded battery supervisor
- Compliant with the Stack Pro 2007 "Home Automation" Public Profile

Conformity

C E

Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.

Technical Data

Weight	38 g (without battery)
Power	CR2032 3V battery
Battery life	Up to 1 year
Measurement	70/64/15 mm
Nb Switches	5
Accuracy Measurement	0,5°C
Measurement range temperature	-20°C/60°C

Application domain:
Lighting

ZRC 2.0

Easy and wireless Home Automation by CLEODE

3 700571 800036

ZigBee® Remote Control
Functional description

ZRC is a wall switches which communicates on Zigbee™ standard.

ZRC embeds 5 Switches and a temperature sensor which can be used in conjunction with others Zigbee™ devices like thermostat, ...

ZRC is compliant with Zigbee Pro 2007 stack and then it can be easily plug in an existing network.
ZRC is fully configurable with a Zigbee™ manager (cf. CleoBee™)
Several ZRC can be installed at home to monitor your house temperature.

ZRC is very low power and works with one CR2032 battery. This product can be fixed on the wall with screws or sticky tape.

Specifications

Key Features

- 5 switches
- Temperature sensor
- Pairing mode
- State LED
- Embedded battery supervisor
- Compliant with the Stack Pro 2007 "Home Automation" Public Profile

Conformity

Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.

Technical Data

Weight	38 g (without battery)
Power	CR2032 3V battery
Battery life	Up to 1 year
Measurement	70/64/15 mm
Nb Switches	5
Accuracy Measurement	0,5°C
Measurement range temperature	-20°C/60°C

ZLIGHT 2.0

Easy and wireless Home Automation by CLEODE

ZigBee® Power Light
Functional description

The product ZLight is a Zigbee™ module to command two lights of a minimal power of 500 W each

It is designed to be integrated into a wall or a ceiling lamp.

It allows ON/OFF and Toggle orders.

It switches any bright spots working on 3A/230V 50-60Hz.

User can configure it with a Zigbee™ manager (Cf. CleoBee™) and can manage it with a remote control (Cf. ZRC).

ZLight is also a Zigbee™ router. Then, with it, you can expand the network to cover your entire house.

Specififcations

Key Features

- Can switches 2 lightings
- ON/OFF/Toggle
- ZigBee® router
- State LED
- Pairing mode
- Compliant with the Stack Pro 2007 "Home Automation" Public Profile.

Conformity

Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.

Technical Data

Weight	60g
Power	85-263 V 50-60 Hz
Commutation	2 lightings up to 3A on 230V
Measurement	44/44/25 mm

Application domain:
Security

ZMOVE 2.0

Easy and wireless Home Automation by CLEODE

ZigBee® Motion Detector
Functional description

ZMove is a wireless PIR motion detector which communicates on Zigbee™ standard.

ZMove is compliant with Zigbee Pro 2007 stack and can be easily plug in an existing network.

ZMove is fully configurable with a Zigbee™ manager (cf. CleoBee™)

Several ZMove can be installed at home to protect your house.

ZMove is very low power and works with two AAA batteries.

This product can be fixed on the wall with screws or sticky tape.

Specifications

Key Features

- PIR detector
- Pairing mode
- State LED
- Embedded battery supervisor
- Compliant with the Stack Pro 2007 "Home Automation" Public Profile

Conformity

Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.

Technical Data

Wieght	70 g (without batteries)
Power	2 AAA batteries
Battery life	Up to 1 year
Measurement	90/42/27 mm

ZDOOR 2.0

Easy and wireless Home Automation by CLEODE

3 700571 800050

ZigBee® Door/Window Sensor
Functional description

The ZDoor product detects intrusion with a magnet and reed-switch mechanism that reports an alarm during unauthorized entry by door or window.

ZDoor is a wireless product. It sends its alarms on Zigbee™ network.
ZDoor is very low power and works with one coin cell battery CR2032.

ZDoor is compliant with Zigbee Pro 2007 stack and can be easily add in an existing network.

Several ZDoor can be installed at home to monitor any door or window within your house.
This product would be fixed on the wall with screws or sticky tape.

Specifications

Key Features

- Permanently detects intrusion
- Pairing mode
- State LEDt
- Embedded battery supervisor
- Compliant with the Stack Pro 2007 "Home Automation" Public Profile

Conformity

C E

Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.

Technical Data

Weight	60 g (without battery)
Power	CR2032 3V battery
Battery life	> à 1 an
Measurement	65/54/21 mm

ZGAS 1.0

Easy and wireless Home Automation by CLEODE

3 700571 800074

ZigBee® Smoke and Carbon Monoxyde Detector

Functional description

ZGas detects any presence of smoke or Carbon Monoxide.

ZGas is a wireless product. It sends its alarms on ZigBee™ network.
ZGas is very low power and works with one 9V battery.

ZGas is compliant with ZigBee Pro 2007 stack and can be easily plug in an existing network.

Several ZGas can be installed at home to protect your house. We recommend installing one product at each stair.

Specifications

Key Features

- Permanently detects monoxyde
- Permanently detects smoke
- Pairing mode
- Test mode
- State LED

- Embedded battery supervisor
- Compliant with the Stack Pro 2007 "Home Automation" Public Profile

Conformity

CE

Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.

Technical Data

Weight	130 g (without battery)
Power	6LR61 alcaline 9V Battery
Consumption	<100 µA in idle mode <75 mA in alarm mode
Sensibility CO : Smoke :	 100 ±50ppm 1%~50%/ft OBS

ZLEAK 1.0

Easy and wireless Home Automation by CLEODE

3 700571 800142

ZigBee® Water Leak Detector
Functional description

The ZLeak product detects a water leak with a probe.

ZLeak is a wireless product. It sends its alarms on Zigbee™ network.

ZLeak is very low power and works with one coin cell battery CR2032.

ZLeak is compliant with Zigbee Pro 2007 stack and can be easily add in an existing network.
This product would be fixed on the wall with screws or sticky tape.

Several ZLeak can be installed at home to monitor wet parts in your home.

Specifications

Key Features

- Permanently detects water leak
- Pairing mode
- State LED
- Embedded battery supervisor
- Compliant with the Stack Pro 2007 "Home Automation" Public Profile

Conformity

Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.

Technical Data

Weight	30 g (without battery)
Power	CR2032 3V battery
Consumption	< 2µA in idle mode
Battery life	Up to 1 year

Application domain :
Personal assistance

ZKEY 1.0

Easy and wireless Home Automation by CLEODE

3 700571 800135

ZigBee® Keychain
Functional description

The product ZKey allows you to control ZigBee® devices home by wireless link utilizing the standard ZigBee® wireless frequency.

Each button allows the management of a scene and enables according to the scenarios planned to control an opening gate, the closure of all or a part of the shutters.

The product is specially optimized for a use outside the network and works with CR2032 battery.

User can configure it with a Zigbee™ manager (Cf. CleoBee™).

Specifications

Key Features

- 1 to 5 buttons
- Lock mode
- Configuration mode
- Pairing mode
- Embedded battery supervisor
- Compliant with the Stack Pro 2007 "Home Automation" Public Profile

Conformity

C E   Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.

Technical Data

Weight	23 g (Battery include)
Power	CR2032 3V battery
Comsumption	Up to 2µA in idle mode
Battery life	Up to 1 year
Measurement	60/40/17 mm
Option	1 ou 5 buttons

ZCARE 1.0

Easy and wireless Home Automation by CLEODE

3 700571 800081

ZigBee® Fall and Pulse Detector
Functional description

ZCare is a fall and pulse detector which can communicate on Zigbee™ standard.

ZCare is used to detect, with its embedded numeric accelerometer and photo reflective sensor, a fall and pulse of a person.

On fall or abnormal pulse, it transmits an alarm to a coordinator ZigBee™ (cf UBee). Also, the user can easily alert by pressing a button on ZCare.

ZCare is compliant with Zigbee™ Pro 2007 stack and then it can be easily plug in an existing network. ZCare is fully configurable with a Zigbee™ manager (cf. CleoBee™)

Several ZCare can be installed to take care of a group. ZCare is very low power and works with one CR2477 battery.

This product can be easily fixed on the wrist.

Specifications

Key Features

- Fall detector
- Pulse detector
- Manual alarm

- Pairing mode
- State LED
- Embedded battery supervisor
- Compliant with the Stack Pro 2007 "Home Automation" Public Profile

Conformity

CE

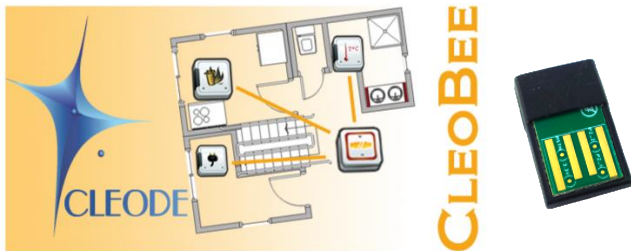Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.
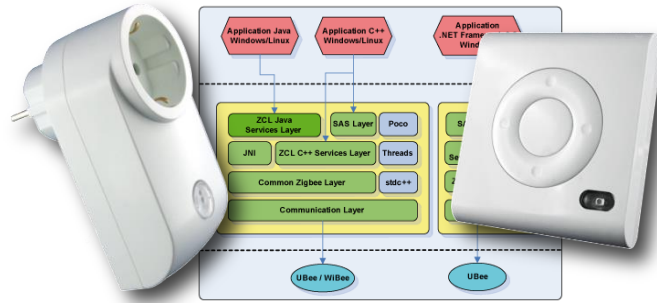
Technical Data

Weight	70g (without battery)
Power	CR2477 3V battery
Battery life	Up to 6 months
Sensibility	0,0625g
Measurement range	-2g à + 2g

Software tools

SDK SOFTWARE

Easy and wireless Home Automation by CLEODE

SDK ZigBee® DevBee™
Descriptif fonctionnel

DevBee™ is a development kit targeting users and developers of ZigBee™ wanting to fast generate a wireless mesh home networking based on ZigBee ™ protocol and the IEEE 802.15.4 standard without specific knowledge of the ZigBee stack.

This DevBee™ contains a ZCL library that provides a higher level API.

This ZCL library provides, in C/C++, JAVA or C#, the following functionalities:

- Automatic Network discovering of all the devices,
- High ZCL level functions to read and write attributes, manage reporting, bindings and groups,
- Provides all the ZigBee definitions (smart energy, home automation, cluster library, ...)
- Software actions to control ZigBee devices, to send e-mail and SMS

This library makes ZigBee use very easy. You focus on your application, not on the serial protocol between our UBee and a PC or Box.

Specifications

SDK description

- A ZigBee® coordinator : UBee Nano
- A ZigBee® plug : ZPlug Boost
- A ZigBee® remote control : ZRC
- A CDRom with :
  - A binary library, LibZCL :
    - C/C++ or
    - Java, or
    - C#
  - A ZigBee® network management : CleoBee™
- Compliant with the Stack Pro 2007 "Home Automation" Public Profile.
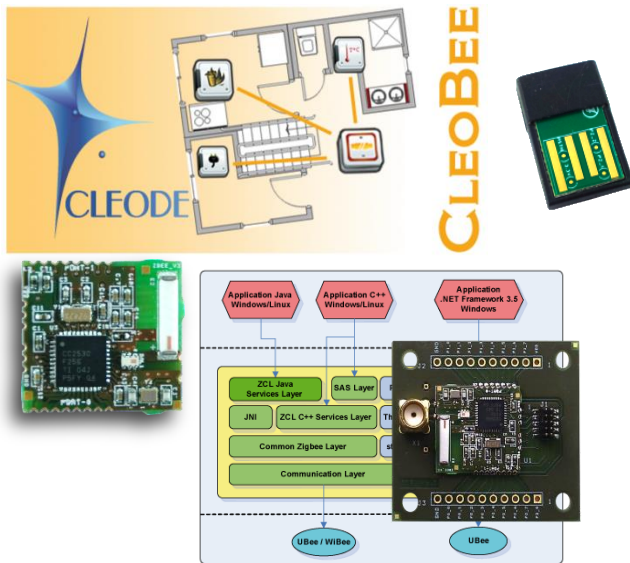
Conformity

Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.

EMBEDDED SDK

Easy and wireless Home Automation by CLEODE

ZigBee® Embedded SDK
Functional description

The ZigBee® Development Kit, dedicated CC25xx of Texas Instruments is intended for developers of ZigBee®.

It aims to implement and quick start of an embedded applicationwithour knowledge ZigBee® standard.

This development kit constsits of a library ZEL who implements the standard mechanims of a ZigBee® product.

This API, provides the following features:

- Network association Switch
- Automatic management of reads and writes attributes
- Management reports, bindings, groups and scenes,
- Adding standards clusters
- Entry point for adding owner cluster
- A typical application project skeleton , directly usable by IAR Embedded Workbench for 8051

The application can be tested directly on the evaluation card. Zbee OEM module allows to test the solution at a lower cost,.

Specifications

SDK description

- A ZigBee® coordinator : UBee Nano
- A ZigBee® evaluation board : ZDB with ZBee a OEM ZigBee® modul
- A CDRom with:
    - A binary library : LibZEL :
    - A ZigBee® network management : CleoBee™
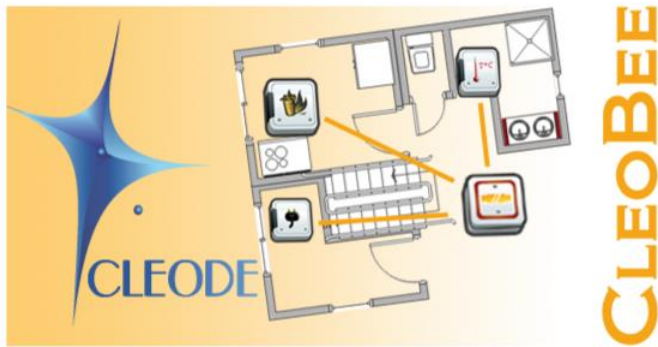- Compliant with the Stack Pro 2007 "Home Automation" Public Profile

Conformity

CE   Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.

CLEOBEE™ 4.0

Easy and wireless Home Automation by CLEODE

ZigBee Certified product

3 700571 800111

ZigBee Member

ZigBee® Network Management

Functional description

CleoBee™ is henceforth available and allows to visualize a network of ZigBee™ objects, to interact with these last ones without having of knowledge in programming.

Temperature management:
Management and programming of heating or cooling in different parts of the house.

Management opening :
Opening or closing blinds or shutters, gate, door, by areao or entralized. Management scenarios and time periods.

Remote management :
Integrated solution allowing the management via interet of the home.
Emission of alarms on all media (SMS,Email, Voice..)

Lighting management :
Management of lighting scenarios depending on the activity and the external environment.

Safety :
Integrated solution to make life easier for disabled people (elderly, disabled,..)

Energy management :
Statement of energy consumption (Water, electricity).

Safety of property :
Protection of all the home against intruders and the risk of fire.

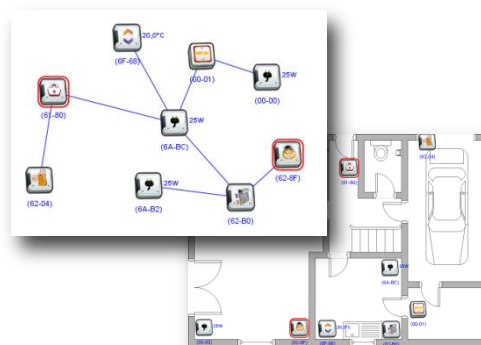## Fonctionnalities

Network visualization

Natively, at the comissioning, the manager CleoBee™ will perform a discovery of the ZigBee® network.

After the network discovered, you can work in topology mode (presentation of the network as a tree relationship father/ son) or in geographic mode (positioning of objects discovered on a 2D plane.)

Configuration

Watever the opreation mode, you can always configure inter-objects links (bindings) or software actions, as well as the objects themselves.

Scénarios

Similary, you can, depending on the embedded objects, create and manipulate groups and scenes, allowing, for exemple, to define scenarios as the sleep of your home (before vacation).

On software order or pressing a button, your home will, depending on the configuration you performed:

- Cut all the lights
- Down all the shutters
- Put all the heaters in «Eco» mode
- Activate monitoring of the house (intruder alarm)

Notification

Similary, the system can inform you in real time of the status of services by notifying via various media (Email, SMS*, Vocal**) all changes. Thes notifications are often used to warn od intrusion, a functional anomaly sauch as water leak, a risk of fire. In the case of assistance to disabled persons, they can warna caregiver that a person has fallen or in trouble.

*May require subscription following operators

** Requires a subscription (contact us)

Accessibility

Your installation home ZigBee® automation always remains accessible even from outside. With the internet option, you can, with your laptop or phone, control the products installed in your home.

Specifications

Key Features

- Network visualization (topologique or 2D)
- Projects management
- Authorization management network Objects configuration
- Network configuration (chanel, PanId, keys, ...)
- Bindings, groupes, and scenes configuration,
- Software actions configuration (http, email, SMS,...),
- Alarms management,
- Backup of all network evenements

Conformity

C E Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.

Technical Data

Support	CD
Compatibility	Windows XP, Seven 32/64 Linux, MacOS 10.5.8 Other on demand

ANDROBEE 1.0

Easy and wireless Home Automation by CLEODE

3 700571 800067

ZigBee® Android Management
Functional description

The AndroBee product is an application dedicated to the management of a home automation ZigBee® network, via local or remote access for touchscreen Tablet Android OS version 3.2 minimum.

Connected to the WiBee server, the application lets you view all of the elements integrated into your ZigBee® network.

Via a simple and intuitive interface you can control all of your installation.
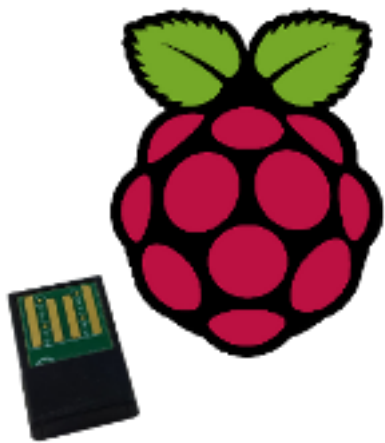
Specifications

Key Features

- Visualization of your ZigBee® network by application domain (comfort, energy, security, medical,...)
- Graphical Widgets for intuitive use
- Display of the various measures in the form of graphs or histograms
- Scene activation
- Local or remote communication

Technical Data

OS supported	Android 3.2 et plus
Screen	8" and more. Upcoming Smartphone versionr
Support	Delivered as Android package
Prerequisite	Have a WiBee version 3.1 minimum

WIBEE-PI 1.0

Easy and wireless Home Automation by CLEODE

WiBee for Raspberry
Functional description

WiBee-PI is the package for Raspberry WiBee that with a UBee nano key becomes a Controller ZigBee autonomous able to manage, to control and to monitor a set of objects independently ZigBee through an embedded Web site and / or a CleoBee™ remote application.

WiBee-PI utilizes the Raspbian distribution and requires postgresql database and apache2 http server.

To install the package WiBee-PI, you will :

- Update the list of packages,
- Install package,
- Update dependencies.

After installation, you can now connect on the website through the following link:

http://[IP address of the Raspberry]/wibee

or

with the CleoBee™ remote application.

WiBee-PI requires a **SD Card of 8GB** for an optimal use.

A **preinstalled SD Card of 8GB** with postgresql packages and apache2 is also available.
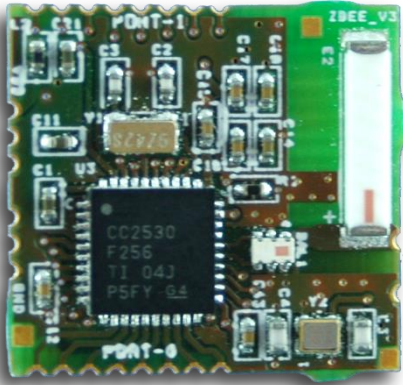
Specifications
Key Features

- Network visualization
- Projects management
- Authorization management network
- Objects configuration
- Network configuration (chanel, PanId, keys, ...)
- Bindings, groupes, and scenes configuration,
- Software actions configuration (http, email, SMS,...),
- Alarms management,
- Backup of all network evenements
- Web Interface
- Available with CleoBee™ remote

Technical datas

Support	Delivered as package for Raspberry ou Preinstalled on a SD Card 8GB
Prerequisite	SD Card 8 GB

Hardware tools

ZBEE 5.0

Easy and wireless Home Automation by CLEODE

ZigBee® Member

OEM ZigBee® Module
Functional description

The product Zbee is a model OEM RF Le produit ZBee est un module OEM RF in conformity with the IEEE 802.15.4. standard.

Designed to integrators of solutions, the module enables rapide development of hardware solutions (objects, controllers, ect,..), without worrying about the implementation of the wireless and ZigBee® satndard. With its small footprint, it can be integrated into any type of material (Box, sensor, actuator, ect...)

The module allows to integrate a ZigBee® stack complying with the standard ZigBee® pro 2007 and create complex mesh networks.

Low-energy, it is designed to oprerate on batteries (lithium, AAA, etc.)

Specifications

Key Features

- OEM module
- Operating frequency 2,4 GHZ
- IEEE 802.15.4 standard
- 14 Inouts/Outputs available
- Compliant with the Stack Pro 2007 "Home Automation" Public Profile and "Smart Energy" Profile
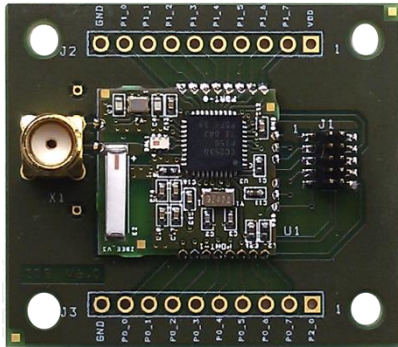
Conformity

CE

Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.

Technical Data

Weight	2 g
Power	2,4V à 3,6V
Consumption	< 2µA in idle mode
Input sensitivity	-98 dBm
Output power	+3,3 dBm
Range (outdoor)	100 m at 1 dBm 200 m at 3,3 dBm
Measurement	19/17,8/2,4 mm

ZDB 2.0

Easy and wireless Home Automation by CLEODE

ZigBee® Evaluation Board
Functional description

The ZigBee® evaluation board can rapidly implement applications using ZigBee® technology.

On a small area, the evolution board provides direct access to the connectors in the form of input/output module for programmable Zbee of CLEODE and a SMA antenna connector for adding an external antenna 2.4 GHz

The ZigBee evaluation baord is intended primarily for users developer with knowledge of Linux, Unix, C language and electronics.

Specifications
Key Features

- CC2530 Texas Instruments
- Operating frequency 2,4 GHZ
- IEEE 802.15.4 standard
- 14 Inputs/Outputs available
- Programming port
- Extension SMA port for external antenna (not supplied)
- Compliant with the Stack Pro 2007 "Home Automation" Public Profile and "Smart Energy" Profile

Conformity

CE

Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.

Technical Data

Weight	5 g
Power	3V
Consumption	< 2µA in idle
Input sensibility	-98 dBm
Output power	+3,3 dBm
Range (outdoor)	100 m at 1 dBm 200 m at 3,3 dBm

UBEE
BOOST
1.0

Easy and wireless Home Automation by CLEODE

3 700571 800098

amplified
coordinator
version

ZigBee® USB Dongle
Functional description

The Ubee Boost dongle is a network coordinator ZigBee ® with an amplified signal up to +20 dBm. It is used to manage a wireless domestic network by Zigbee®.

Ubee Boost is the network coordinator and its firmware can be fully updated. Ubee Boost can be used under Windows, Linux, MacOS 10.5.

Used in conjunction with the network manager CleoBee™, Ubee provide you the right solution to manage sensors and actuators on a Zigbee™ domestic network.

Specifications
Key Features

- ZigBee® coordinator with amplified signal
- Automatic Scan of using channels
- Network Parameters Storage
- Software pairing
- Fully programmable.
- Reprogrammable VID/PID.
- Compliant with the Stack Pro 2007 "Home Automation" Public Profile.

Conformtity

CE   Meets European consumer safety, health and environmental requirements.

Technical Data

Weight	20 g
Power	USB 2.0
Consumption	Compatible USB 2.0
Communication	Wireless 2,4 GHz compatible Stack pro 2007
Output Power	Up to +20 dBm

UBEE NANO 1.0

Easy and wireless Home Automation by CLEODE

3 700571 800098

ZigBee® USB Dongle
Functional description

The Ubee dongle is used to manage a wireless domestic network by Zigbee™.

Ubee is the network coordinator and its firmware can be fully updated.

Ubee can be used under Windows, Linux, MacOS 10.5.

Used in conjunction with the network manager CleoBee™, Ubee provide you the right solution to manage sensors and actuators on a Zigbee™ domestic network.

Specifications

Key Features

- ZigBee® coordinator
- Automatic Scan of using channels
- Network Parameters Storage
- Software pairing
- Fully programmable.
- Reprogrammable VID/PID.
- Compliant with the Stack Pro 2007 "Home Automation" Public Profile.

Conformtity

CE   Meets European consumer safety, health and environmental requirements.

Technical Data

Weight	20 g
Power	USB 2.0
Consumption	Compatible USB 2.0
Communication	Wireless 2,4 GHz compatible Stack pro 2007

WIBEE 2.0

Easy and wireless Home Automation by CLEODE

3 700571 800104

ZigBee® Plateform
Functional description

WiBee is a stand-alone controller capable of managing a ZigBee™ network from your PC using an EThernet or a WIFI interface and a Web Interface or CleoBee™ and a remote access CleoWeb from your phone, tablet, PC.

The WiBee product integrates embedded linux and is availeble natively via Ethernet and/or optional Wi-Fi and/or optional GSM/GPRS, 3G
It natively integrates a PHP server and a PostgreSQL database.
Integrated to the WiBee system, a scenario manager allows for simple and easy configuration, management and program behavior such as:

      http command, Email on alert (intrusion, drop, ..)
      Atomatic switching off lights
      Management opening depending on climatic parameters

Contenu et accessoires

WiBee	✔
Sector Adaptator 220/5 V	✔
CD User manual	✔

Specifications

Key Features

- Cortex-A9 Quad-core 1.5GHz
- RAM: 1GB DDR3
- Flash: 8GB eMMC
- Ethernet
- USB 2.0 port
- Options:
    - Wifi
    - GSM/GPRS ou 3G
- Ubuntu 14.04
- Compliant with the Stack Pro 2007 "Home Automation" Public Profile
- Measurement 77/104/30 mm
- Power 5 V continu

Conformity

Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.

BEEPACK™

Easy and wireless Home Automation by CLEODE

3 700571 800012

ZigBee® Evaluation Pack
Functional descriptiopn

The BeePack product is a automation solution sacalable, interactive and accessible to all.
It enables a fast implementation of ZigBee® objects without special knowledge.

Objects are discrete and do not require any wires. They all operate on batteries for at least 1 year. Only exception to this rule, the object type router that requires an outlet to allow you to expend your home automation solution throughout the hous.

These smart objects can be moved at any time. They emit only the information that you have requested them and spend the rest of the time sleeping. They know interact with other ZigBee® network objects, depending on their needs and scenarios that are requested to them.

Delivered with a ZigBee® network manager, it provides you with a simple and complet solution for you, automation needs.

All products of CLEODE are natively interoperable and can enrich this basic package of functionality.

Pack description

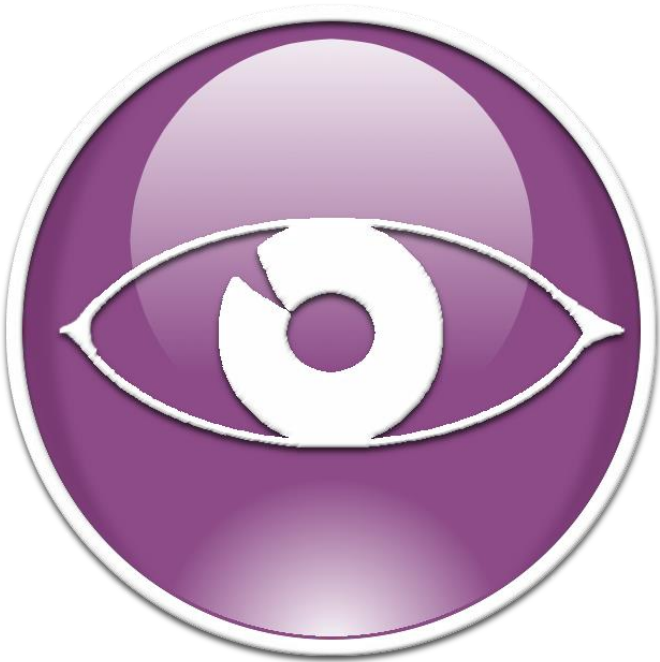| CleoBee™	ZigBee® network manager
UBEE Nano	ZigBee® USB Nano
ZRC	ZigBee® remote control
ZPlug Boost	ZigBee® power outlet
ZGas	ZigBee® carbone monoxyde and smoke detector

Conformity

CE   Meets European consumer safety, health and environmental requirements.

Meets the Home Automation Public Profile standard established by Zigbee alliance.

Various

ZXPAND 2.0

Easy and wireless Home Automation by CLEODE

3 700571 800081

ZigBee® Router
Functional description

The ZXpand product can expand the network to cover your entire house.

On a small form factor, the ZXpand can become integrated directly into your wall. The box is designed for wall mounting, with screws or double sided adhesive.

The electrical connection is realized with a terminal block connector.

Specifications

Key Features

- ZigBee® router
- Manage up to 20 devices
- Range (outdoor) up to 100 m
- State LED
- Compatibilité stack pro 2007 profil "Home Automation"

Conformity

CE | Meets European consumer safety, health and environmental requirements.

| Meets the Home Automation Public Profile standard established by Zigbee alliance.

Technical Data

Weight	60g
Power	85-263 V 50-60 Hz
Measurement	53/52/32 mm

A complete offer for your projects
Customized solutions

Consultancy

CLEODE has unique expertise in the design and implementation of ZigBee®
product.

With a partnership with Texas Instruments around its components ZigBee® and
ZigBee Alliance member®, CLEODE optimizes, enriches and develops its
products in accordance with standards.

CLEODE advises clients in the phases of engineering and design as
industrialization or in systems installation.

Engineering

Leveraging our core products ZBee, Library ZCL, CLEODE designs and develops
customer-specific management modules for both prototyping and industrialisation
applications.

Areas of expertise:

- Electronics (diagram / routing / manufacturing file)
- Software (embedded / interface / HMI)
- Mechanical (CAD / Manufacturing / Packaging)

White label

CLEODE markets its products under its own brand or white label. On request it is
possible to customize some products to best fit your business constraints.

CLEODE 3 Rue Thomas Edison

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contact@cleode.fr

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