SMART ENOCEAN HOME GATEWAY
TECHNICAL PRODUCT SHEET (DCU-GW/EO-IP)

DIGITAL CONCEPTS

Description

- Linux-based, wall-mounted, home IP-gateway with touch display, translating EnOcean-Radio Communication (Energy Harvesting Wireless Technology) into different IP-worlds
- Hosting of Smart home software at application layer, adaptable to customer / project requirements
- End user access via touch interaction (TFT, 7")
- Web interface to view, control or manage EnOcean devices
- local configuration and maintenance via access point mode
- Supports EnOcean Security/AES Encryption
- Supports EnOcean Remote Commissioning
- Product concept is governed by the obligation to avoid any exposure of 230 V to the user, even in case of collisions and dismantling
- radio approvals, CE conformity
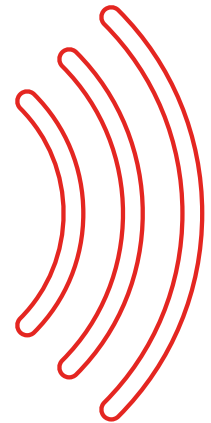
Technical Features

- ARM quadcore embedded design
- Supports standard EnOcean profiles (www.enocean-alliance.org) as well as manufacture specific profiles
- Update capability for future EnOcean products (868.3 MHz, ISO/IEC 14543-3-10)
- No limits regarding the number of sensors and actuators which can be connected
- Prepared for customer application layer
- Simple API, string based (tcp) and powerfull API REST/JSON based (http)
- IoT development kit for Intelligent Buildings (Node-Red)
- Fully open bidirectional REST/JSON API with device administration for a seamless integration in any existing ecosystem
- Out of the box integration with the IBM Watson IoT Plattform and Microsoft Azure Cloud
- Flexible and energy efficient hardware
- Multiple connections to the network (LTE CAT1 (no TDD), fallback EDGE /GPRS; WLAN 802.11 b/g/n), simultaneous operation enabled
- wMBus integration prepared (EN13757-4:2017-11, operational modes S, T, R2)
- integrated LTE-micro SIM (3FF / mini-UICC), not accessible externally
- USB interface
- TFT display, 7 inch diagonal, RGB, 800 * 480 dots, capacitive touch, activation via wake-up button
- „home" button with tricolor RGB-LED for status signaling
- HW-reset button
- Consists of two modules: a display unit and a wall socket unit

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Dimensions Display Unit (input 5 VDC; HxWxD):
200 x 120 x 33 mm

Dimensions Wall socket Unit
(input 230 VAC, output 5 VDC; HxWxD):
160 x 100 x 60 mm

Dimensions Wall plate (HxWxD):
148 x 96 x 6 mm

Weight: 640 g

Input: 230V AC

Power consumption: 12.5 W (maximum)

Mini-SIM slot (3FF, integrated)

EnOcean - 868.3 MhZ

WLAN (802.11n) - 2.4 Ghz

Delivery contents

Smart EnOcean home Gateway (display, unit wall socket unit, wall plate)

Potential applications

Rented flats: central communication and data aggregation point between tenant and landlord, central interaction point for light and climate control

Residential homes: central interaction and data aggregation point for light and climate control, status information

Controllable and maintainable remotely by an operator

DIGITAL CONCEPTS

Digital Concepts GmbH
Wankelstraße 1
70563 Stuttgart
www.enocean-gateway.eu
info@enocean-gateway.eu