DEVELCO
PRODUCTS

# Product catalogue

## White label products for the entire IoT industry

Smart home • Energy management • Home security • Assisted living

Gateways • Meter interfaces • Sensors • Relays • Smart plugs

# Sensors and alarms

Monitoring everything, the sensors and alarms can help residents keep a smart eye on their house

## Motion Sensor

The Motion Sensor detects occupancy, light & temperature. With the ZigBee Motion Sensor, the user will be able to set lights to turn on and off as people come and go. Moreover, a the temperature detector can be installed to trigger smart thermostats or portable heaters to adjust the heat as people come and go.

## Humidity Sensor

The Humidity Sensor monitors temperature and humidity levels in a building. By supervising the indoor climate, the ZigBee based Humidity Sensor helps maintain the ideal comfort level and protect interior, electronics, musical instruments, furniture, artwork, and any other humidity-sensitive household item.

## Window Sensor

The Window Sensor detects and reports opening and closing of the doors and windows. Easily installed on any door or window, the sensor triggers a signal when parted. The sensor also features a built-in temperature functionality. The functionalities of the Window Sensor make it ideal for automatic lighting, access control, and home security solutions.

## Smoke Alarm

The smoke alarm alerts residents about smoke with a loud sound as a warning. It can also activate the siren in other Smoke Alarms in the building via ZigBee communication. Moreover, the Smoke Alarm reports the status and temperature via the given smart home system.

## Heat Alarm

The Heat Alarm is specifically useful in environments where a traditional optical smoke sensor can cause false detections. This heat based fire alarm is designed for installation in private homes or garages with risk for smoky, dusty, or humid environment. The thermo sensitive detector with ZigBee communication detects both rapidly increased heat and absolute heat levels. It will alert you about fire with a loud sound as a warning or via a smart home solution.

## Flood Alarm

The Flood Alarm provides an early warning to help avoid or reduce potential damage from water leakages. The Flood Alarm has a built-in 85 dB siren that will sound an alarm when water is detected. The Flood Alarm is easily integrated with other ZigBee based systems for smart home, energy management, assisted living, and home.

## Key Fob

With the Key Fob, the user will be able to adjust various settings at home, such as the door opener, energy optimization via controlling the light via a smart plug, burglar alarm, or a wireless smart home system. The Key Fob has 4 buttons which can be configured according to the actual needs.

# Smart plugs
## Complete control of household devices

### Smart Plug Mini

The Smart Plug Mini is the world's smallest. It is an intelligent remotely controlled adapter that monitors the power consumption as well as enables the user to control electrical equipment by switching it on or off remotely. The Smart Plug Mini is easy to use, since it requires no installation. The user just has to put it into an electrical outlet and then plug in the desired electrical device.

### Type F (Schuko)

Used in: Germany, Greece, Hungary, Indonesia, Italy, Luxembourg, the Netherlands, Norway, Russia, Spain, and Sweden.

### Type E (French)

Used in: Belgium, Czech Republic, France, Poland, and Slovakia.

### Type G (British)

Used in: UK, Ireland, Hong Kong, Malaysia, Qatar, Saudi Arabia, Singapore, and United Arab Emirates.

### Type E (Danish)

Used in: Denmark, India, Jordan, South Africa, and Morocco.

# Smart relays
## Remote power control for clusters of devices and wireless stream of consumption data

### Combined power meter and wireless control

The smart relays enable you to switch your equipment on or off remotely. They grant wireless on/off control of clusters, groups of appliances, or of individual elements. They also feature a power metering functionality, granting the user access to monitoring the power - giving an increased overview of when and what unit groups consume most power.

### Smart Cable

Smart Cable converts conventional power cables to a remotely controlled unit, which allows users to monitor their power consumption. The Smart Cable enables the user to control plugged in electrical devices, with the option to switch electronical equipment on or off.

### Smart Relay 30A

With this ZigBee relay for heavy loads, the user is able to switch devices and equipment on/off remotely. It consists of a plug-unit with built-in relay communicating with a gateway that supports ZigBee. This smart relay also features a power meter functionality.

### Smart Relay 16A DIN

The Smart Relay DIN 16 A enables the user to switch equipment on or off remotely. It grants wireless on/off control of clusters, groups of appliances, or individual elements. It also features a power meter functionality, granting the user access to monitoring the power - giving an increased overview of what unit groups consume most power and when.

## Get realtime data wirelessly

Meter interfaces are a way of equipping third party meters with wireless communication technology, enabling them to report data to your smart home system. By integrating our wireless communication module in a meter, the smart home solution is expanded with energy management functionalities that help reduce energy consumption and costs.

## Prosumer Meter

The Prosumer Meter is designed to integrate household's solar power modules in the smart energy or smart home solution. It allows the user to monitor the energy production combined with the consumption, and gives an overview of the total result of this.

## External Meter Interface

The External Meter Interface serves as a ZigBee interface for your electronic meters at home. The meter interface collects the information from the existing meters, and sends the data via ZigBee communication to appliances in the building. The user can simply follow the energy consumption through a display, a computer or a mobile phone.

## External Meter Interface - Norwegian HAN

The External Meter Interface serves as a ZigBee interface for electronic meters at home. The meter interface collects the information from existing meters, and sends the data via ZigBee communication to appliances in the building. The user can easily follow the energy consumption through a display, a computer or a mobile phone.

## Kamstrup Interface

The meter interface equips Kamstrup meters with wireless communication. The module is mounted under the standard meter cover and is compatible with single and poly phase meters. In addition to the standard ZigBee metering functionality, the device supports a complete KMP protocol via ZigBee tunnel cluster, providing extended meter functionality.

## NES Meter Interface

The ZigBee and/or Wireless M-Bus module serves as a gateway between the wireless network and the NES electricity meter powerline communication. The MEP device is capable of collecting meter readings from up to 16 different meter units in one system, e.g. water, gas and heating meters.

## ZigBee Module

This ZigBee Module is a ready-to-use building block that can be mounted directly in any device or equipment needing ZigBee communication. The wireless module has an internal antenna and comes with a 24-pole connector with access to multiple I/Os. The module is available with standard software or with customized software.

## Squid.link Gateway

The Squid.link Gateway is a modular platform for flexible Home Area Network.It connects wireless devices through a communication protocol and reports data back to the user's computer or smart phone. The Squid.link Gateway is configurable and an extremely flexible solution for connecting networks based on different technologies.

### The heart of wireless solutions

Develco Products' gateway is a flexible white label platform for connecting all devices in a smart home or energy management system. The gateway supports a wide range of communication protocols including ZigBee, Z-Wave, WLAN, Wireless M-Bus, and Bluetooth Low Energy. The gateway is based on a programmable Linux-platform and supports Java and OSGI.

### Customizable

The Squid.link Gateway is configured when put into production. You can also design the appearance of the Gateway the way you want. There are numerous design and colour options that can be tailored according to your needs.

## Smart home in a box

Our starter kits provide you with a range of products and different possibilities. They are a quick easy way of getting closer to your applications for smart home, energy control, healthcare, and home security. With this box, you have a range of products to help you accodate every need in home comfort and security. Both kits include:

- Squid.link Gateway
- Motion Sensor
- Window Sensor
- Smoke Alarm
- Smart Plug Mini

### Evaluation Kit

The Evaluation Kit allows users to try out the look, feel, and functionality of our products, with access to firmware updates, instruction videos, and documentation for an easy start through our Support forum.

#### Key benefits

- Learn about product installation
- Access the demo application
- Access to Support forum
- Test product performance
- Evaluate the functionality of the devices

### Squid.link Starter Kit

With the Squid.link Starter Kit, you can develop your own applications with unrestricted access to our software development tools and a full test environment.

#### Key benefits

- Includes all you need to getting started in minutes
- Software licence for development
- Access to online documentation & software updates
- Tools and instruction videos available
- Configurations for C, C++, Python, and Java applications
- Squid.link ProSyst image available directly from ProSyst
- Secure log-on using individual keys

### Upgrade to Starter Kit

After having evaluated the products, you can upgrade your Evaluation Kit to a Squid.link Starter Kit. This upgrade will provide you with a software license that enables you to access a demo server, development tools, SDK with predefined configurations, as well as engineering support.

### Demo Application

The demo application enables you to add new products to the wireless network, follow their current status, and control electrical appliances via the smart plugs. Just connect your PC or smartphone directly to the access point of the gateway and you are ready to start using the application.

| Smoke Alarm | Motion Sensor | Smart Plug Mini | Window Sensor |
|---|---|---|---|
| 26.0 °C | 24.0 °C  639 Lux | 2 Wh  0 W | 24.4 °C |
| OK | IDLE | OFF | OPEN |
| RSSI: -66.0 dBm | RSSI: -59.0 dBm | RSSI: -68.0 dBm | RSSI: -35.0 dBm |

# Wireless platform

Building your application on top of Develco Products' open wireless platform enables you to focus on the quality of your software. The platform includes the Squid.link Gateway and a number of wireless devices already tested in large networks. The Squid.link Gateway offers a fully open wireless platform based on open standards. Implementing your application in C, Phyton, Java or other language gives you full access to wireless networks based on multiple wireless standards.

## Development tools

The Squid.link platform is delivered with demo application for a quick and easy start. Develco Products provides a PC based tool for generating, sending, receiving, and interpreting ZigBee telegrams and other messages.

Applications can access the hardware interfaces through an application API. This API is accesible directly from an application running on the gateway or from a server via a SmartAMM middleware.

## Linux, Java & OSGI

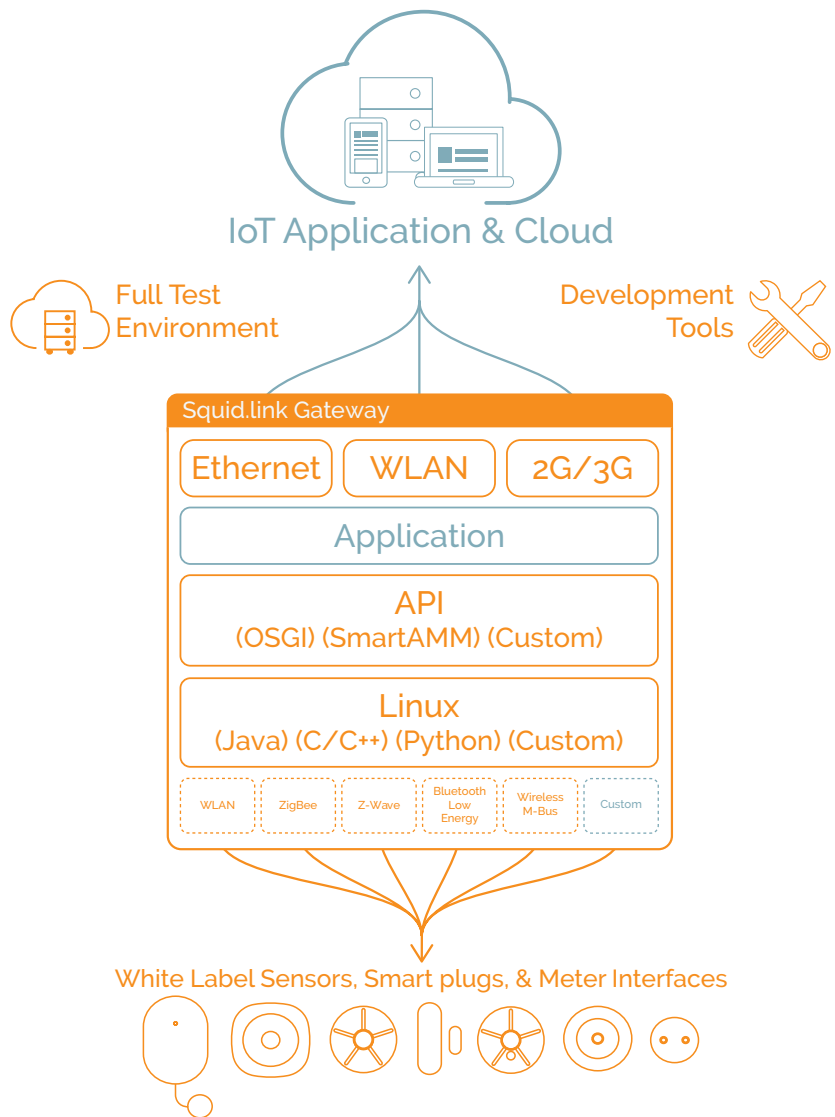For development, several Linux build variants are available, e.g.:

- Linux for C and C++
- Linux with Oracle Java for JVM7 or JVM8
- Linux with Oracle Java, ProSyst Smart Home middleware
- Or you can modify the Linux platform yourself to match your needs.

## Application API

The application API can be accessed from applications running on the gateway as well from a hosted application running remotely. The remote access runs through a separate channel established between the gateway and the server.

For an easy access, a server middleware is available that is called SmartAMM server through, which you can debug the wireless communication with the development tool. The 3rd party application connects to the application API via a socket connection.



IoT Application & Cloud

Full Test Environment

Development Tools

Squid.link Gateway

| Ethernet | WLAN | 2G/3G |

Application

API
(OSGI) (SmartAMM) (Custom)

Linux
(Java) (C/C++) (Python) (Custom)

| WLAN | ZigBee | Z-Wave | Bluetooth Low Energy | Wireless M-Bus | Custom |

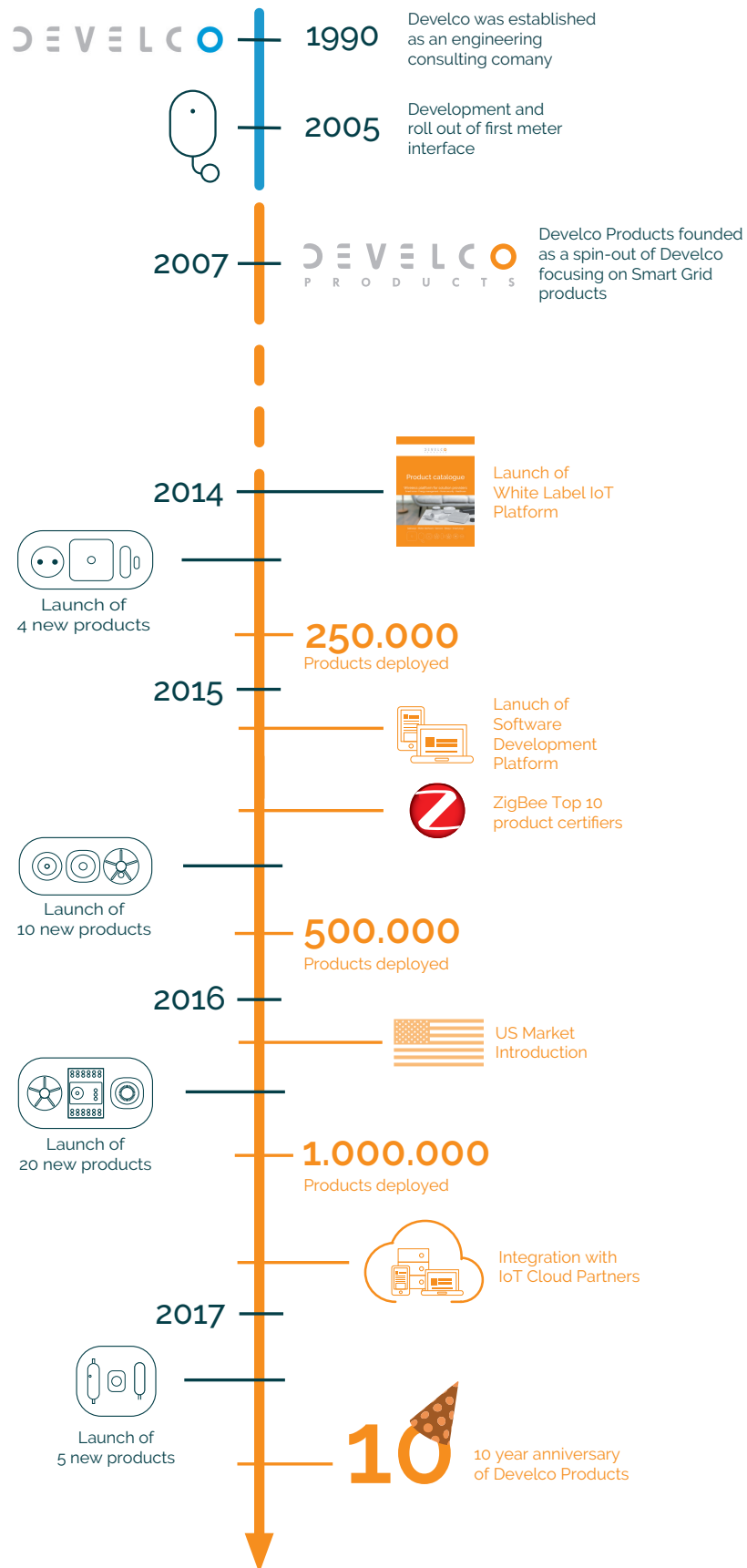White Label Sensors, Smart plugs, & Meter Interfaces

## Support forum

In Support forum, you are given a great opportunity to be more acquainted with the Evaluation Kit, Squid.link Starter Kit, and wireless platform from Develco Products.

You can learn about the products, get to know how to join devices, and much more. You can watch the instruction videos and get an answer for product-related questions thanks to the online documentation. What's most important, you get the development tools, firmware updates, and SDK as well as access to a demo application and a demo server.

# 10 Years of Experience

Since we rolled out our first commercial product over 10 years ago, Develco Products has experienced exponential growth in sales. Today, we supply some of Europe's biggest names in the areas of home automation, energy and security. Take a look at our timeline below, and see for yourself how Develco Products continues to grow, thanks to our expertise in – and demand for – smarter homes, across the world.

**DEVELCO**

**1990** — Develco was established as an engineering consulting comany

**2005** — Development and roll out of first meter interface

**2007** — **DEVELCO** PRODUCTS — Develco Products founded as a spin-out of Develco focusing on Smart Grid products

**2014** — Launch of White Label IoT Platform

Launch of
4 new products

**250.000**
Products deployed

**2015** — Lanuch of Software Development Platform

ZigBee Top 10 product certifiers

Launch of
10 new products

**500.000**
Products deployed

**2016** — US Market Introduction

Launch of
20 new products

**1.000.000**
Products deployed

Integration with IoT Cloud Partners

**2017** —

Launch of
5 new products

**10** — 10 year anniversary of Develco Products

## About Develco Products

Develco Products delivers a wireless infrastructure platform for solution providers within the smart home and energy management industries.
We provide high-volume customized products for companies supplying end-users with Internet of Things solutions.

## Tomorrow's technology today

We are experts in wireless communication and have more than 10 years of experience in developing products based on a wide range of wireless technologies.
We take pride in advancing the technology of Internet of Things, and work with leading organizations and institutions in bringing you tomorrow's wireless technology today.

## CONTACT US

Develco Products
Olof Palmes Allé 40
DK - 8200 Aarhus N

Phone: (+45) 87 400 370
sales@develcoproducts.com
www.develcoproducts.com