Description

The Alpwise *Bluetooth*® Smart development kit is a platform for rapid prototyping and evaluating of your *Bluetooth*® Smart solutions, thus facilitates the complete development of your wireless product.

The kit consists is provided with :

- *Bluetooth*® Smart module ALPW-BLEM103 mounted on the adaptation board ALPW-DVKCM3

- *Bluetooth*® Smart Nano USB dongle

- ALPW-BLESDE® software development environment

- A development board can be added in option

Main features

The Alpwise Development Kit provides all connections, peripherals access, debug and programming facilities to ease *Bluetooth*® product development.

- Main board integrates a powerful STM32F1x Cortex M3 MCU with 1MB Flash and 96kB RAM

- Equipped with a ready-to-use ALPW-BLEM103 single mode *Bluetooth*® Smart HCI module based on EM9301 controller. The module can be totally isolated from the rest of the board by using jumpers.

- All of MCU GPIO and alternate functions are available through connectors

- Serial debug and JTAG connection

- Bootloader interface for programming, two wires serial debug

- User interface with two LEDs and two switches
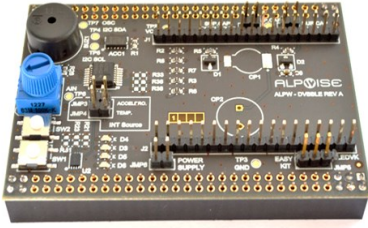
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ALPW-BLEDVB: BLE Application development board extension

The ALPW-BLEDVB is a multi-sensors application development board to extend BLE application development capabilities:
- Provided with an accelerometer, a temperature sensors, ADC, a potentiometer, 4 LEDs, 2 switches and a buzzer
- Supercapacitor allowing 30 minutes' battery duration
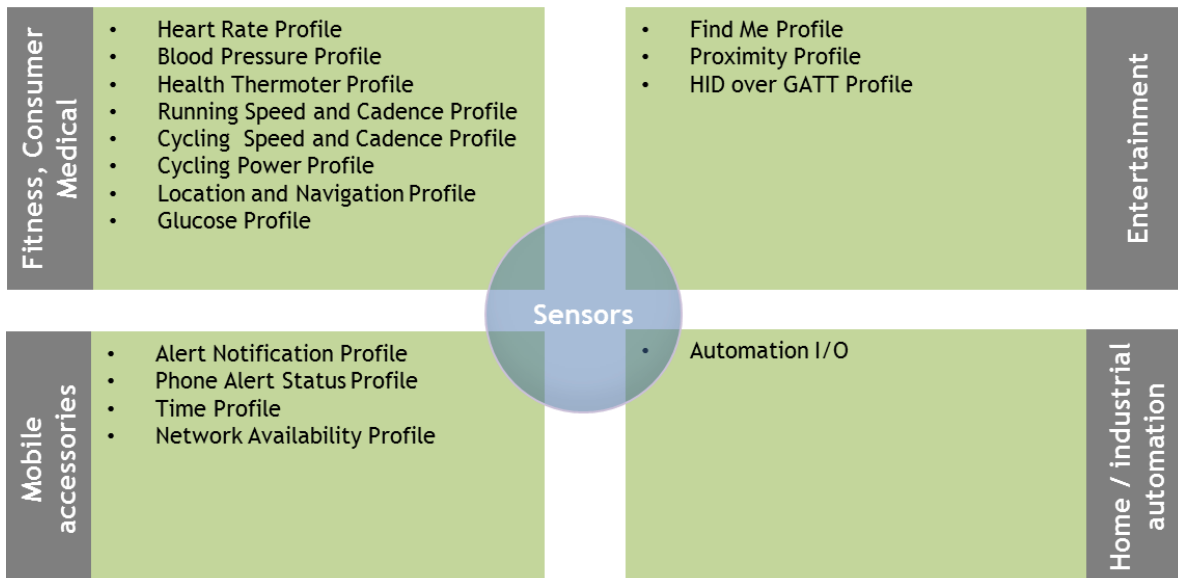- Dimensions 80mm x 55mm
- Max Active Power Consumption 45 mA

ALPW-BLESDE®: *Bluetooth®* Software Development Environment Suite

The **ALPW-BLESDE for ALPW-BLEM003** enables engineers to easily develop their own application on top of the Alpwise *Bluetooth*® Smart stack and profiles. It provides a set of software suite to develop, test & evaluate the *Bluetooth*® low energy technology:
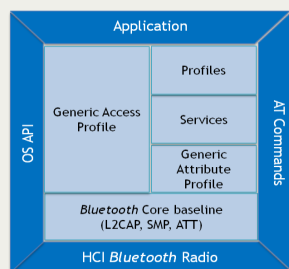- Software kit Manager to set-up and handle the development kit
- *Bluetooth*® stack and profiles in Object Code running on ALPW-BLEM003 module
- Demo applications to easily evaluate the technology

User Applications

The ALPW-BLEM003 facilitates the integration of cost-effective and low power consumption wireless technologies for the following application segments, thanks to a continously updated and qualified list of profiles:

Fitness, Consumer Medical
- Heart Rate Profile
- Blood Pressure Profile
- Health Thermoter Profile
- Running Speed and Cadence Profile
- Cycling Speed and Cadence Profile
- Cycling Power Profile
- Location and Navigation Profile
- Glucose Profile

Entertainment
- Find Me Profile
- Proximity Profile
- HID over GATT Profile

Sensors

Mobile accessories
- Alert Notification Profile
- Phone Alert Status Profile
- Time Profile
- Network Availability Profile

Home / industrial automation
- Automation I/O

You may also be interested in these products

ALPW-BLEM103
BLE HCI module

Bluetooth® low energy protocol stack SDK.

The **ALPW-BLESDK001** provides the software environment tools to implement the single mode *Bluetooth*® Smart compliant protocol stack into any embedded product.