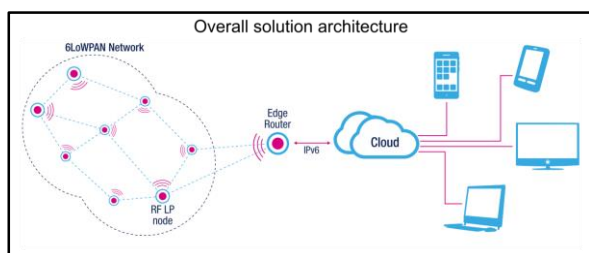


Contiki OS/6LoWPAN on STM32 Nucleo with Sub-1 GHz RF and sensor expansion boards

Data brief



Features

- Firmware package with Contiki OS, Contiki 6LoWPAN protocol stack 3.x and related applications running on a STM32 Nucleo board equipped with sub-1GHz RF connectivity and, optionally, a sensors expansion board
- Support for MESH networking technology by the means of the standard RPL protocol
- Sample applications including a CoAP based REST server (Erbium) exposing sensor resources to connected clients
- Includes STM32L1 firmware drivers for SPIRIT1 sub-1 GHz transceiver, motion and environmental sensors, LEDs, and user button
- Free, user-friendly license terms.

Description

This software provides a Contiki Operating System and Contiki 6LoWPAN stack 3.x port for the STM32 Nucleo board equipped with the sub-1GHz RF communication boards based on the SPIRIT1 transceiver (operating at 868 or 915 MHz), optionally equipped with a sensor expansion board, featuring temperature, humidity, pressure, magnetometer and motion MEMS sensors.

The software comes with sample implementations on the X-NUCLEO-IDS01A4 or X-NUCLEO-IDS01A5 and optionally on the X-NUCLEO-IKS01A1 when connected to a NUCLEO-L152RE.

Revision history

Table 1: Document revision history

Date	Version	Changes
03-Dec-2015	1	Initial release.

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