

SC14ULEDEVKT

One development kit, endless sensor and actuator options
The easiest way to program a wirelessly connected module

Dialog's SC14ULEDEVKT is a complete wireless system development kit that includes one Fixed Part (FP) development board with the SC14CVMDECT module and 2 Portable Parts (PP) development boards with a SC14SPNODE module. All modules contain pre-loaded firmware to support Co-Located Applications (CoLA). It has been created to enable the growing number of diverse technologies and consumer product companies to capitalize on the huge demand for ultra-low energy devices.

The FP supports both cordless voice applications (CVM) and DECT ULE (Ultra Low Energy), the standard for Home Automation Applications. DECT ULE is the latest standard for Home Automation using the 1.9GHz frequency band. The PPs support both sensor as well as actuator DECT ULE applications. The sensors implemented by this technology last up to 10 years on a single AAA battery pack.

Applications are easily created from these boards using the APIs defined by the module firmware and the CoLA framework. And all user applications can be flashed onto the internal memory of the module without changing anything in the Operating System (OS) stack; the OS detects the presence of the user application and will execute accordingly.

By implementing this with the CoLA system, Dialog has simplified the design and build process for software defined applications. Furthermore, this also leads to a significantly shorter Time To Market (TTM).



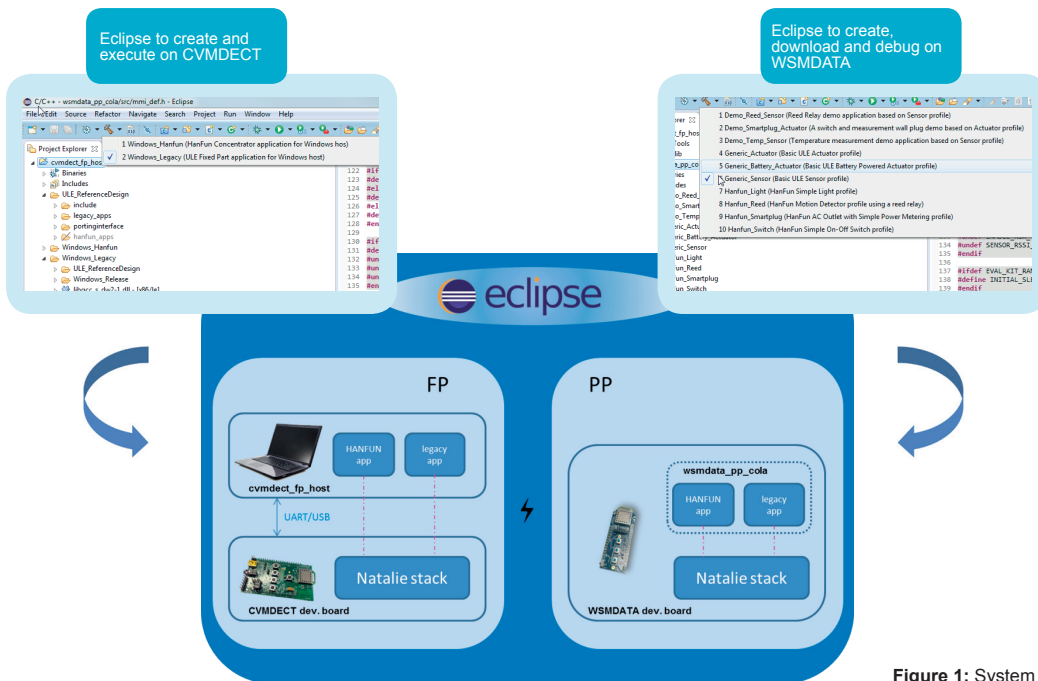


Figure 1: System Overview

Application development can be done both on the target via an Eclipse environment and on the host processor as shown in figure 1.

Modules

All CVMDECT and SPNODE modules are fully TBR6, FCC and JDECT certified, meaning products based on these modules can be used worldwide. Furthermore, adopting this approved and proven technology also saves RF and production testing costs.

This small, single-antenna module is ideal for portable applications and contains all the power needed for a clear and stable connection; enabling conferencing applications, intercom systems or end-node sensor devices for the HAECs (Home Automation, Energy Control and Security) markets. Furthermore, because they are based on the DECT standard, they are operational to a range of up to 300m and beyond.

To aid the development process, several example applications are supplied, each of which comes with detailed documentation and an overview of the principals involved.

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