DECT-ULE USB Dongle Brief

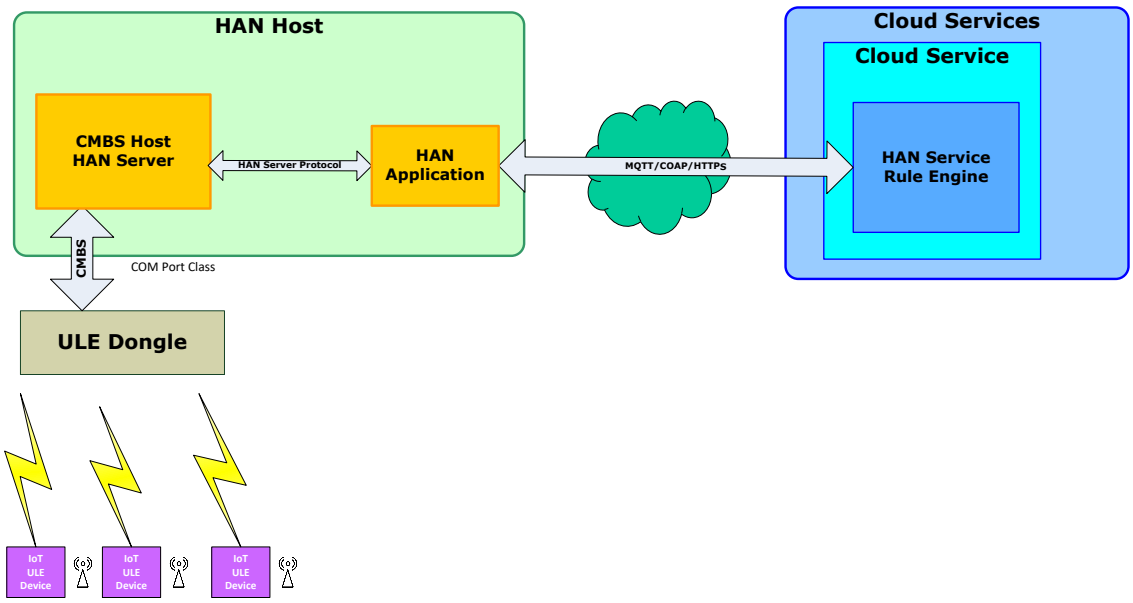
Description

The USB ULE Dongle is a DECT-ULE Hub that plugs into a Windows or Linux PC. Useful for ULE Learning and Application SW Development

Features

- ✓ Includes DECT-ULE radio and antenna (Note: Range achieved with this dongle is NOT representative of the optimal coverage achieved with the DHAN-M module or the – see https://www.dspg.com/application-evaluation-system/
- ✓ Radio covers all regional DECT bands. A simple re-configuration of the EEPROM is required
- ✓ Incorporates the complete DECT-ULE Hub Stack supporting both Dual-Mode ULE Devices as well as GAP Compliant handsets
- ✓ Excellent tool for ULE Learning and Application SW Development on external Linux or Windows processor
- ✓ Supplied with an intuitive GUI running on Windows for easy ramp-up
- ✓ HAN Client-Server reference code is provided as a baseline for design of the customer application that runs on the Host Processor
- ✓ The DHAN-M and the ULE Dongle present the same API to the Application Host

SW Context of the ULE Dongle



- Customer transplants the CMBS Host Reference code into the Host processor and enable its HAN Server Interface (a test-based UDP Socket)
- HAN Server queues messages destined to devices and sends them to the device only when device is in link with the CMBS base. This removes the need for the HAN Application to queue messages, making the HAN Application stateless
- This interface (documented in "CMBS HAN Server Protocol") presents a high level of abstraction for the HAN Application to interact with.
- Customer HAN Application converts from HAN Server protocol to/from any Cloud Service protocol (e.g. MQTT/COAP/HTTPS)
- The HAN Server is not secured - it is merely a Inter Process Communication mechanism between CMBS Han Server and the HAN Application
- The HAN Application should use a secured, preferably standard, protocol to talk to the cloud service. It can be MQTT/COAP over HTTPS (SSL) or Web Sockets or some other framework such as Open HAB, AllJoyn, OCF/IoTivity

Related Documents

see https://www.dspg.com/developers/

*DHAN-M Data Brief
*ULE System Development Tool Brief
*Getting Started with ULEasy

DECT-ULE USB Dongle Number

XCEDR-DCX813-ULEDNGL-BN-HK.BRD
Note: Can also be ordered as part of the ULE System Development Tool (HOMEA-DEVTOOL-BN-IL.SET)

DSP Group Headquarters: 161 S San Antonio Rd, Suite 10, Los Altos CA 94022, Tel: (408)986-4300, Fax: (408)986-4323