

coreBT (Code 7780) coreBT-EXT (Code 7781) labCORE Bluetooth® hardware / software extension

Overview

coreBT is a hardware extension module for labCORE that adds a Bluetooth® reference access point to the hardware platform. It allows labCORE to connect to any Bluetooth-capable voice and audio device for acoustic and electric measurements. coreBT consists of an internal hardware module and external RF antenna. The module supports a wide variety of Bluetooth profiles and configuration options to generate arbitrary test cases.

coreBT-EXT is a software extension for coreBT, adding wideband capability for hands-free profiles and the Qualcomm® aptX™ audio codec.



labCORE in basic configuration (no extension boards) with coreBT module and installed RF antenna

Description

With the optional hardware extension module coreBT, labCORE becomes a Bluetooth® reference access point. This allows the hardware platform to wirelessly connect to any Bluetooth-capable voice and audio device (e.g. mobile phones, headsets, headphones, hands-free devices, Bluetooth loudspeakers etc.) for performing electric and acoustic measurements. Known levels and delays allow precise analysis of the Bluetooth device's own characteristics and behavior.

coreBT consists of an internal labCORE hardware extension module (does not require coreBUS) and an external rear-mounted RF antenna for a reliable wireless connection to the DUT.

coreBT supports a wide variety of configuration options to test specific scenarios and/or force the DUT into desired modes of operation for in-depth testing. Additionally, selectable Bluetooth profiles allow labCORE to act as any type of Bluetooth-connected device:

- Hands-free audio device
- Gateway for a hands-free audio device
- Headset audio device
- Gateway for a headset audio device
- A2DP audio sink device
- A2DP audio source device

coreBT-EXT is an optional software extension for coreBT. It adds wideband capability for hands-free profiles (mSBC codec) and the Qualcomm® aptX™ audio codec for A2DP profiles.

Applications

- Performing electric and acoustic measurements on Bluetooth devices

Key Features

- Internal labCORE hardware extension module (doesn't require coreBUS I/O mainboard)
- External RF antenna for reliable wireless connection to the DUT
- Supports various Bluetooth profiles to generate any desired test case
- Offers various configuration options to enforce desired connection types/settings in the DUT (e.g. sending arbitrary AT commands)
- Optional software extension for wideband and Qualcomm® aptX™ audio capability

General Requirements

Hardware

- **labCORE (Code 7700)**, Modular Multi-channel Hardware Platform

Software

- **ACQUA (Code 6810)**, ACQUA Standard: Basic Analysis Software, full-license Version



Backside of labCORE with installed RF antenna

Delivery

- **coreBT (Code 7780)**, labCORE hardware extension module
 - **Initial equipping:** coreBT is installed to labCORE during production
 - **Retrofitting:** labCORE must be sent to HEAD acoustics for installation

Extensions

Software

- **coreBT-EXT (Code 7781)**, labCORE extended codec software (installation of delivered license file by user)

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