



Code 7796

corel/O-Dante

labCORE I/O Module, Dante Interface

Dante®

OVERVIEW

corel/O-Dante

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labCORE I/O Module, Dante Interface

Dante is a network platform developed by Audinate. It enables audio signal transmission via Ethernet. *corel/O-Dante* is an extension board for *labCORE* for integrating *labCORE* into a Dante network. Thus, audio signals from other Dante-enabled devices can be received by *labCORE* as well as distributed from *labCORE* to other Dante-enabled devices.

KEY FEATURES

Interoperability with Dante-enabled devices in the same Dante network

Audio signal transmission via Ethernet

Audio routing within one network

Playback and recording of multiple audio channels

Simultaneous playback and recording

High accuracy clock of *labCORE* as master clock for the Dante network

Compatibility with Dante Controller Software

APPLICATIONS

Signal transmission to Dante-enabled power amplifiers for playback via loudspeakers / loudspeaker arrays

Recording via Dante-enabled devices, e.g., spatial microphones

DETAILS

DESCRIPTION

coreI/O-Dante is an extension board for *labCORE* and provides connectivity to any Dante audio network. The board is equipped with the Dante Ultra solution Dante Brooklyn 3 for ensuring low latency, high sampling rate, and precise synchronization. Furthermore, the board has two Ethernet (RJ45) interfaces for sending and receiving signals simultaneously.

TECHNICAL DATA

Channels	up to 64 ¹ (bidirectional)
Connection	2 × Ethernet, RJ45 (1 Gbit/s)
Sampling rates	44.1 kHz, 48 kHz



¹ Currently, *labCORE* supports up to 32 Dante audio channels. Future versions of *labCORE* and the control software shall support up to 64 Dante audio channels.

GENERAL REQUIREMENTS

Hardware

- labCORE* (Code 7700)
 - › Modular multi-channel hardware platform
- coreBUS* (Code 7710)
 - › *labCORE* I/O bus mainboard

Software

labCORE Control Software

One of the following software applications:

- ACQUA (Code 6810)
 - › Advanced Communication Quality Analysis Software, full license version
- ACQUA Compact (Code 6860)
 - › Compact test system
- RC-*labCORE* (Code 6984)
 - › Remote control software for *labCORE*

Dante Control Software

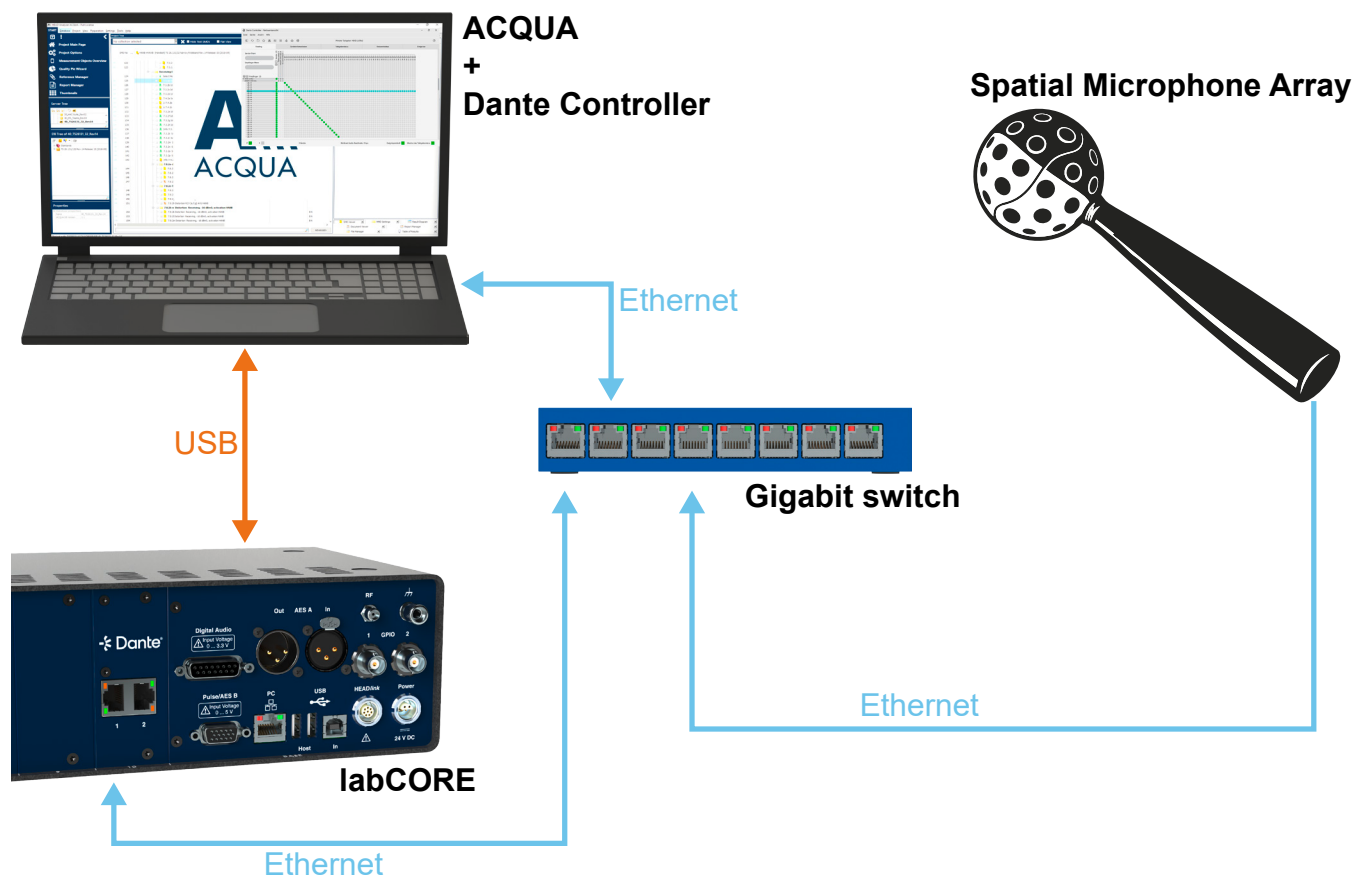
Dante Controller

IN PRACTICE

APPLICATION EXAMPLES

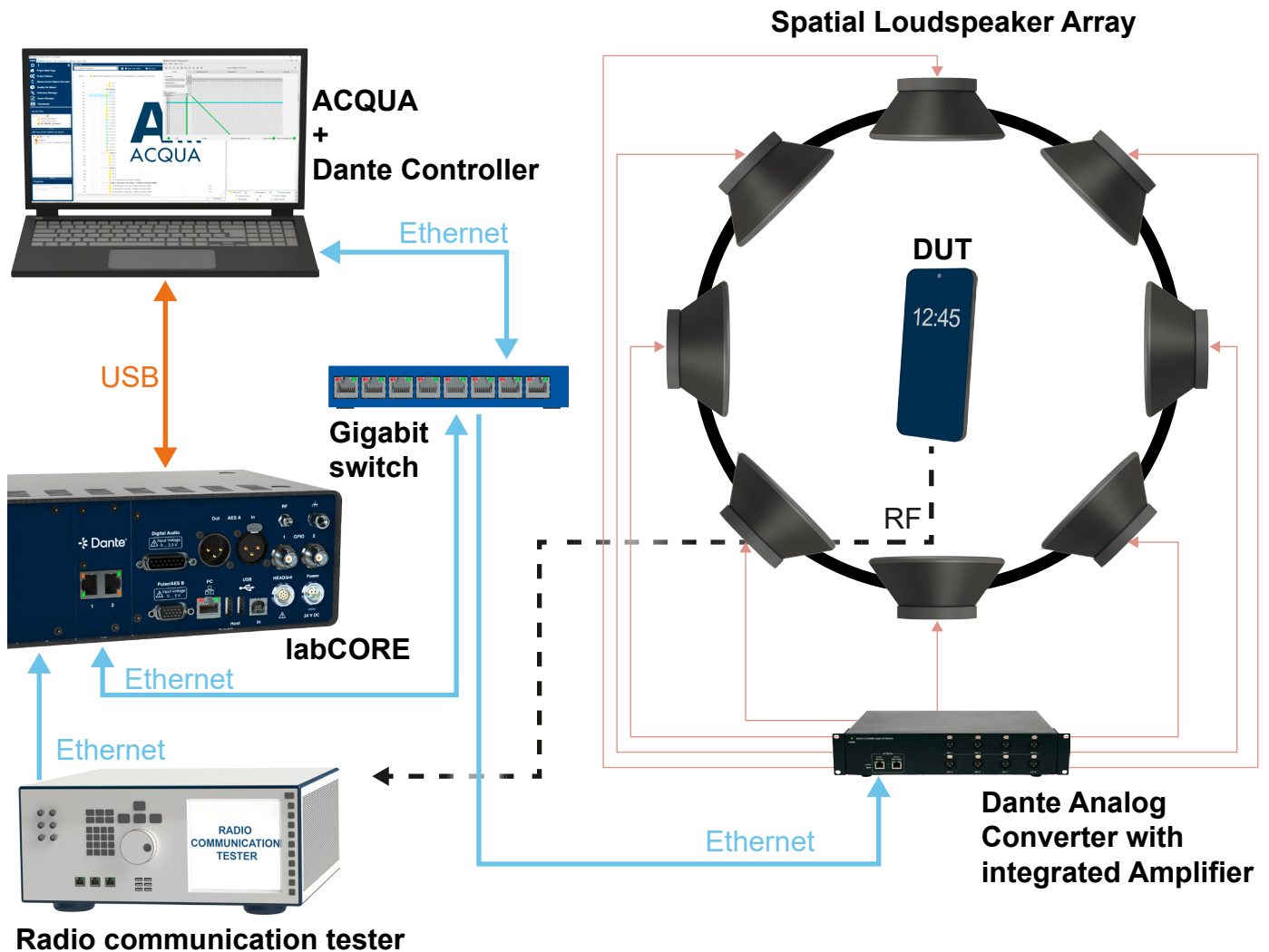
Recording

ACQUA and Dante Controller run on the same computer. *labCORE* is equipped with the coreI/O-Dante module and connected to a Gigabit switch. The switch is also connected to a spatial microphone array, enabling the simultaneous acquisition of a large number of audio channels. The recorded audio signals are transmitted via the gigabit switch to *labCORE*. *labCORE* then routes the signals to ACQUA for analysis.



Playback

ACQUA and Dante Controller run on the same computer. *labCORE* is equipped with corel/O-Dante and connected to both the gigabit switch and the computer. The gigabit switch is connected to one or multiple Dante Analog Converters. The analog signals are transmitted to the loudspeakers for playback. ACQUA plays back signals which are forwarded by *labCORE* to the power amplifiers and eventually arrive at the loudspeakers for acoustic playback. The DUT is equipped with various microphones for recording spatial audio. The microphone signals are transmitted via a radio communication tester to *labCORE* and further to ACQUA for analysis.



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