C2Xpert DVB-C2 Receiver

Installation

1. Introduction

The *C2Xpert*™ is DekTec's DVB-C2 Test Receiver application for demonstrations, field trials and monitoring of DVB-C2 signals.

The software uses DekTec's DTA-2131 multi-standard VHF/UHF receiver card or the RF frontend, tuner and A/D converter of DekTec's DTA-2135 diversity DVB-T receiver card. The *C2Xpert* performs real-time demodulation of a DVB-C2 signal, with a user interface displaying C2 signaling information and statistics. The demodulated Transport Stream is output on UDP. The *C2Xpert* package includes a license for *DtTV*, which can be used to decode the video and audio in the demodulated Transport Stream.

Caution

- The *C2Xpert* can be used for relative performance measurements. However, the absolute performance of the DVB-C2 receiver cannot be considered representative for what can be achieved with hardware demodulator implementations.

2. System Requirements

Platform: 32/64-bit Windows XP/Windows Vista/Windows 7
Processor: Intel Core-i7 920 (2.66Ghz or better)
RAM: 2GB

Caution

- Our preliminary tests indicate that the use of a Core-i7 CPU is essential. Other processors offer insufficient processing power per core.

3. Files

The `C2Xpert.zip` archive contains the following files:

`DTC-343 C2Xpert Installation.pdf`	This document
`C2Xpert Setup.exe`	Setup program for *C2Xpert*; This set-up package installs – next to *C2Xpert* – a driver installer and redistributable files required to run *C2Xpert*

4. Installing the Software

The following install steps should be executed:

1. Extract `C2Xpert.zip` into a temporary folder.
2. Run `C2Xpert Setup.exe` to install *C2Xpert,* the *Dta1xx* driver and redistributable files required to run *C2Xpert*.

C2Xpert can now be started using the desktop shortcut.

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5. Limitations and Known Issues

The *C2Xpert* application has the following limitations:

- 1024QAM and 4096QAM configurations could result in lost TS packets when using the DTA-2135.
- Constellation per subcarrier not supported.

6. DTC-343 C2Xpert Revision History

Revision	***Date***	***Changes***
V1.5.1.17	2015.08.12	- Bug fix for incorrect RF level introduced due to dta driver/dtapiservice changes
V1.5.0.16	2015.02.23	- Added support for DVB-C2-version and Early Warning signalling
V1.4.1.15	2014.12.18	- Improved performance - Fixed TSoIP high IP jitter issue
V1.3.1.11	2012.07.20	- Fixed license issue with maintenance period - Added experimental support for 16K QAM and 64K QAM
V1.3.0.10	2012.05.15	- Based on new DTAPI and driver - Added DTA-2131 support
V1.1.1.8	2011.05.04	- Fixed missing update of DtapiService now part of Installer
V1.1.0.7	2011.04.19	- Added Pre and Post LDPC Error counters - Added Multi PLP support - Improved Error notification - Fix for crash on invalid center frequency - Fixed unlock condition for empty PLP - Fixed LDPC graph issue with values <1
V1.0.2.6	2010.10.27	- Improved LDPC performance - Fix for invalid IP port validation error
V1.0.1.5	2010.08.26	- NON BACKWARDS compatible DVB-C2 changes; needs C2Xpress 1.1.0 or higher - Add MER per subcarrier graph - Minor UI changes; ISSY, PLP Type, Start Frequency
V1.0.0.4	2010.07.01	Initial version; including CPU load limitation start up parameter: 'MaxAvgLdpc'

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