

DVB-C2 Signal Generator

Installation



1. Introduction

The C2Xpress™ is DekTec's DVB-C2 Signal Generator application.

The DTC-379 C2Xpress software package is designed to create DVB-C2 test signals in the form of I/Q sample files and DVB-C2 RF output. C2Xpress allows you to set the DVB-C2 parameters, Data Slice parameters, parameters per PLP, select the PLP sources, add noise, add multiple channel simulation paths and to generate the DVB-C2 test signals.

The I/Q samples file can be processed by your application or it can be played out through the StreamXpress.

A setup program is available for easy installation or upgrading of the C2Xpress software.

The C2Xpress application requires a valid **license code** that is stored in non-volatile memory on one of the DekTec devices or on a dongle. Optionally the C2Xpress license will be delivered within a separate license file, which has to be installed through DtlInfo.

2. System Requirements

Platform	Windows 2k12/2k16/2k19, 7,8,10,11
Processor*	Core i5 minimum Core i7 recommended
RAM	2 GB

* Or equivalent AMD processor

3. Files

The C2Xpress.zip archive contains the following files:

DTC-379 C2Xpress Installation.pdf	This document
DTC-379 C2Xpress Manual.pdf	The user manual
C2Xpress Configs.zip	Archive containing C2Xpress configuration files
C2Xpress Setup.exe	Setup program for C2Xpress

4. Installing the Software

The following install steps should be executed:

1. Extract C2Xpress.zip into a temporary folder.
2. Run C2Xpress Setup.exe to install C2Xpress.
3. Optionally install appropriate license(s) through DtlInfo. The DtlInfo utility can be downloaded [here](#).

C2Xpress can now be started using the desktop shortcut.

5. Limitations and Known Issues

The C2Xpress application has the following limitations:

- Multiple PLP is still in experimental phase (the exact implementation details are not yet specified in V&V).

6. Revision History

Revision	Date	Change Description
V1.19.0.54	2023.07.06	<ul style="list-style-type: none"> • Added DTA-2116 support
V1.18.0.53	2016.08.24	<ul style="list-style-type: none"> • Added DTA-2115B support
V1.16.0.51	2015.10.27	<ul style="list-style-type: none"> • Added DTU-315 support
V1.15.0.50	2015.02.23	<ul style="list-style-type: none"> • Added support for DVB-C2-version and Early Warning signalling
V1.14.0.48	2014.04.24	<ul style="list-style-type: none"> • Added DTA-2115 support
V1.13.0.47	2013.03.29	<ul style="list-style-type: none"> • Added support for 16MHz RF-signal generation with the DTA-2111
V1.12.3.43	2013.02.21	<ul style="list-style-type: none"> • Fixed BUFS and BUFSTAT field in case HEM=false and NDP=true • Fixed problem if type 1 and type 2 data slices are mixed • Fixed problem if Header Counter=2-Frames and Modulation=16 or 64QAM • Fixed order of ISSY fields in the first C2-frame
V1.12.1.41	2012.06.11	<ul style="list-style-type: none"> • Fixed IQ output to file
V1.12.0.40	2012.05.15	<ul style="list-style-type: none"> • Based on new DTAPI and driver
V1.11.3.39	2011.12.09	<ul style="list-style-type: none"> • Added additional error checking
V1.11.2.38	2011.08.17	<ul style="list-style-type: none"> • Added display of total play out time • Increased valid range for output delay parameter • Added continuity count correction and PCR adaption after TS-file looping • Fixed FIFO underflow errors when running C2Xpress for a long period • Fixed "Implementation limitation" error
V1.10.0.35	2011.04.21	<ul style="list-style-type: none"> • Added option for generating a part of the spectrum of a C2-System • Added support for L1 parameter updates • Updated big-TS splitting
V1.9.1.32	2011.03.17	<ul style="list-style-type: none"> • Fixed problem when using L1 TI mode: 4 or 8 symbols
V1.9.0.31	2011.02.17	<ul style="list-style-type: none"> • Added support for DTA-2111 • Added OFDM symbol filtering • Fixed SDT-Other generation in common PLP • Removed .NET 2.0 SP2 dependency
V1.8.0.30	2010.12.21	<ul style="list-style-type: none"> • Added test point data output • Fixed 4K-QAM RF-signal problem • Fixed (re)start generation without RF-signal
V1.7.0.27	2010.12.03	<ul style="list-style-type: none"> • Improved MPLP and ISSY supported • Added ACM test option • Added experimental support for 16K QAM and 64K QAM

		<ul style="list-style-type: none">• Added "Notch test" parameter to allow out of range notches• Added "L1 part2 change counter" parameter• Fixed narrow band notch width• Fixed zero length data slices
V1.1.0.19	2010.08.30	<ul style="list-style-type: none">• Added peak-to-average power reduction• Incorporated DVB-C2 V1.1.2 specification changes• Added support for DTA-116 and DTA-117• Fixed bitrate when ISSY is enabled
V1.0.1.17	2010.04.19	<ul style="list-style-type: none">• Fixed detection of capable output adapters
V1.0.0.16	2010.03.16	<ul style="list-style-type: none">• Initial version

7. Contact Information

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