



# T2Xpert

## DVB-T2 Receiver

### Installation

## 1. Introduction

The **T2Xpert™** is DekTec's DVB-T2 Test Receiver application for demonstrations, field trials and monitoring of DVB-T2 signals.

The software uses DekTec's DTA-2131 or DTU-331 SDR receiver card. The **T2Xpert** performs real-time demodulation of a DVB-T2 signal, with a user interface displaying T2 signaling information and statistics. The demodulated Transport Stream is output on UDP. The **T2Xpert** can be used in combination with the **StreamXpert**, to decode the video and audio in the demodulated Transport Stream.

### Caution

- The **T2Xpert** can be used for relative performance measurements. However, the absolute performance of the DVB-T2 receiver cannot be considered representative for what can be achieved with hardware demodulator implementations.

## 2. System Requirements

Platform	Windows 10, 11
Processor*	Core i5 4 <sup>th</sup> generation minimum Core i7 4 <sup>th</sup> generation recommended
RAM	2 GB

\* Or equivalent AMD processor

## 3. Files

The **T2Xpert.zip** archive contains the following files:

<a href="#">DTC-342 T2Xpert Installation.pdf</a>	This document
<a href="#">T2Xpert Setup.exe</a>	Setup program for <b>T2Xpert</b> ; This set-up package installs – next to <b>T2Xpert</b> – a driver installer and redistributable files required to run <b>T2Xpert</b>

## 4. Installing the Software

The following install steps should be executed:

1. Extract **T2Xpert.zip** into a temporary folder.
2. Run **T2Xpert Setup.exe** to install **T2Xpert**, the **Dta/DtBb2/DtPcie** drivers and redistributable files required to run **T2Xpert**.

**T2Xpert** can now be started using the desktop shortcut.



## 5. Limitations and Known Issues

The *T2Xpert* application has the following limitations:

- Signals using FFT mode 1K are not demodulated correctly.
- A frequency change causes some delay to lock to the new frequency.

## 6. DTC-342 T2Xpert Revision History

<b>Revision</b>	<b>Date</b>	<b>Changes</b>
<a href="#">v1.11.0.35</a>	2023.11.08	- Added support for DTA-2131B
<a href="#">v1.10.0.34</a>	2023.06.22	- Added support for DTU-331
<a href="#">v1.9.1.33</a>	2021.02.11	- Fixed memory leak and crash after long-term usage
<a href="#">v1.9.0.32</a>	2020.10.30	- Added number of sub-slices and PLP-payload type fields
<a href="#">v1.8.5.31</a>	2020.09.15	- Support for DTC-344-XPRT license
<a href="#">v1.8.2.28</a>	2016.01.20	- Bug fix for possible crash seen on some PC's
<a href="#">v1.8.1.27</a>	2015.08.12	- Bug fix for incorrect RF level introduced due to dta driver/dtapiservice changes
<a href="#">v1.8.0.26</a>	2014.12.10	- Support for InBand A,B flags - Support for L1 Scrambling indication - Improved performance - Fixed TSolP high IP jitter issue
<a href="#">v1.7.0.23</a>	2012.05.15	- Based on new DTAPI and driver - Added DTA-2131 support - Improved DVB-T2-Lite support
<a href="#">v1.5.0.21</a>	2011.09.27	- Support for DVB-T2 Lite (DVB-T2 version 1.3.1, including T2 Base Lite) - Support for Data PLP mute (only decode common PLP data) - Improved PLP switching - Improved UI including extra information in BER/FER indicators
<a href="#">v1.4.1.18</a>	2011.05.04	- Fixed missing update of DtapiService now part of Installer
<a href="#">v1.4.0.17</a>	2011.04.19	- Support for 1.7MHz bandwidth - Added Pre and Post LDPC Error counters - Added MISO support for Impulse Response and Transfer Function graphs - Improved Error notification - Fixed possible crash on high CPU load - Fixed LDPC graph issue with values <1
<a href="#">v1.3.1.15</a>	2010.10.27	- Improved LDPC performance - Fixed invalid IP port validation error
<a href="#">v1.3.0.14</a>	2010.08.31	- Support for T2-MI over IP (all PLPs/TS data included). - Support for CPU load limitation using config parameter: 'MaxAvgLdpc'. - Fixed incidental relocks.
<a href="#">v1.2.0.12</a>	2010.06.08	- Support for DTA-2135 hardware revision 6. - Fixed incidental instable Impulse Response graph. - Fixed incidental error message + stop of graph functions. - Fixed handling of kHz part of Frequency configuration. - Improved V404 combined common PLP decoding.
<a href="#">v1.1.0.10</a>	2010.02.26	- Support for 6 and 7MHz Bandwidth. - Support for IP forward of common PLP combined with selected PLP. - Added Graphs; Constellation per PLP or Subcarrier, Impulse Response, MER



		<ul style="list-style-type: none"><li>per PLP and Transfer function.</li><li>- Reduced IP jitter.</li><li>- Added field for DVB-T2 version.</li><li>- Fixed incidental error message at start or close of T2Xpert.</li><li>- Fixed incidental error message when using a degraded signal.</li><li>- Fixed VV502/VV006-16K Demodulating error.</li><li>- Fixed error using configuration pilot pattern 1,3,5,7 + MISO.</li><li>- Minor UI changes; numeric formatting, data validation</li></ul>
<b>v1.0.0.7</b>	2009.05.14	Initial version

## 7. Contact Information

Please find our contact information below:

DekTec Digital Video B.V.  
Godelindeweg 4  
1217 HR Hilversum  
The Netherlands

Tel: +31 35 20 30 100

Fax: +31 35 20 30 101

email: <mailto:support@dektec.com> / <mailto:info@dektec.com>

website: <http://www.dektec.com>