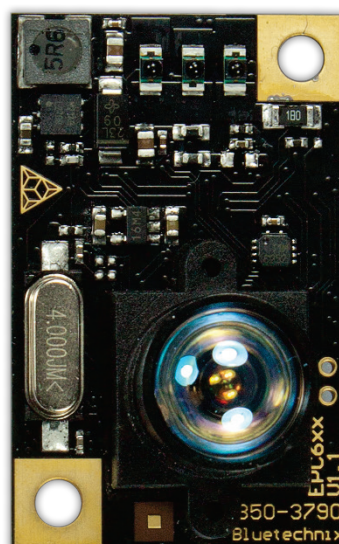


BLUETECHNIX
Embedding Ideas

EPC6xx ToF Package

Quick Start Guide

Version 0.0





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EPC6xx ToF Package – Quick Start Guide

Document No.: 900-308 / A

Publication date: May 12, 2014

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Information

For further information on technology, delivery terms and conditions and prices please contact Bluetechnix (<http://www.bluetechnix.com>).

Warning

Due to technical requirements components may contain dangerous substances.



1 Unboxing

1.1 In the box

- EPC610 ToF Module ('Tiny ToF')
- Tiny ToF Development Board
- USB Mini Cable
- Quick Start Guide
- Documentation and Software (on CD)
- Power Supply

1.2 Connecting your Tiny ToF Development Board

1.2.1 Connector Overview

- UART interface
- USB/UART interface
- SPI interface
- JTAG connector
- I²C interface
- Configuration switch 1
- Trigger button
- Dual color LED
- Configuration switch 2
- Reset button
- DC10 power connector
- Terminal power connector
- RS232/485
- Outputs
- Inputs
- Module connector
- Modulation signal port
- ModLight interface

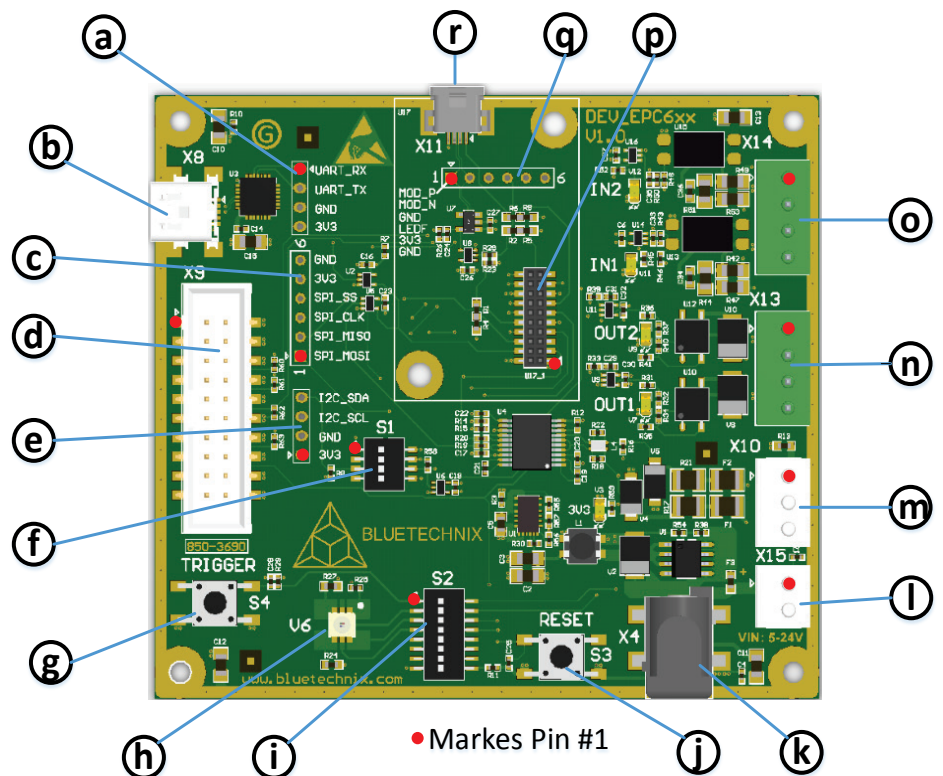


Figure 1-1 Tiny ToF Development Board connectors and interfaces


Note

Please follow the next steps in the right order to get your 'Tiny ToF' up and running correctly.

1.2.2 Connecting the EPC6xx ToF Module

Connect the EPC6xx ToF Module via the module connector (p) to the Tiny ToF Development Board.

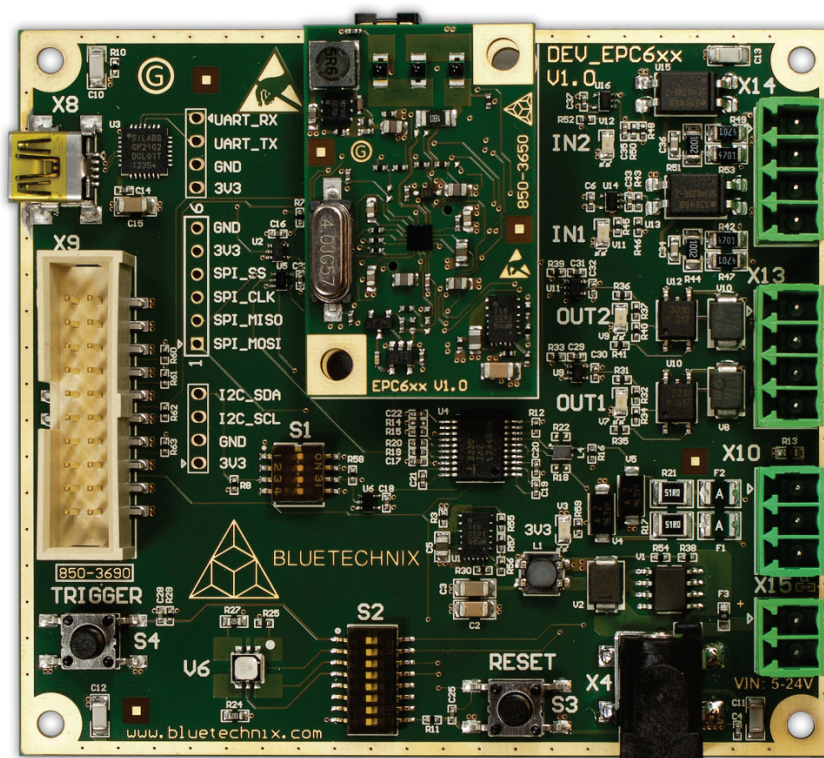


Figure 1-2 Tiny ToF Development Board with connected Tiny ToF Module

1.2.3 Connecting the USB cable

Plug in the USB cable **(b)** and connect your EPC6xx ToF Evaluation Kit to your PC. On Windows 7 the USB driver will be installed automatically, on Windows XP follow the installation guide of our support website (https://support.bluetechnix.at/wiki/USB-UART_driver_installation_guide).

1.2.4 Connecting the power supply

To ensure, that your EPC6xx ToF Evaluation Kit works correctly, connect the 'Tiny ToF Development Board' to a **5V-24V DC** power supply using one of the power connectors (**k**, **l**) and wait for approximately 2 seconds until the EPC6xx module boots up.

Pin assignment on the power connectors (k, l):

DC10 connector (k): Connector Type: 2.1mm ID / 5.5mm OD

Voltage: 5-24V (1,5W)

Polarity: 

Terminal connector (l): Pin #1: +5V-24V, Pin#2: GND



Note

The power supply connectors are protected against wrong polarity but the 'Tiny ToF Development Board' will not work in case you don't use the correct polarity! If the 'Tiny ToF' doesn't work please check the power supply polarity first!



Figure 1-3: EPC6xx ToF Kit with connected Tiny ToF module, power supply and USB cable



2 Downloading the Evaluation Software

Please log in to our support website at <https://support.bluetechnix.com/> and download the Visualizer software 'Bluetechnix ToF Suite V3.0.0'.

2.1 Support website

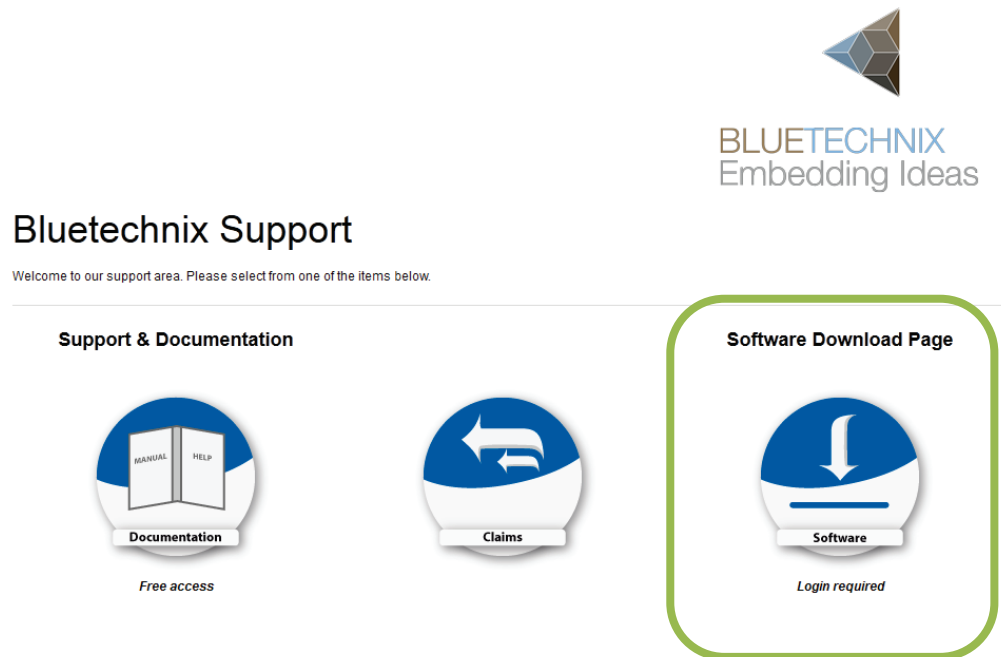


Figure 2-1: Download Evaluation Package

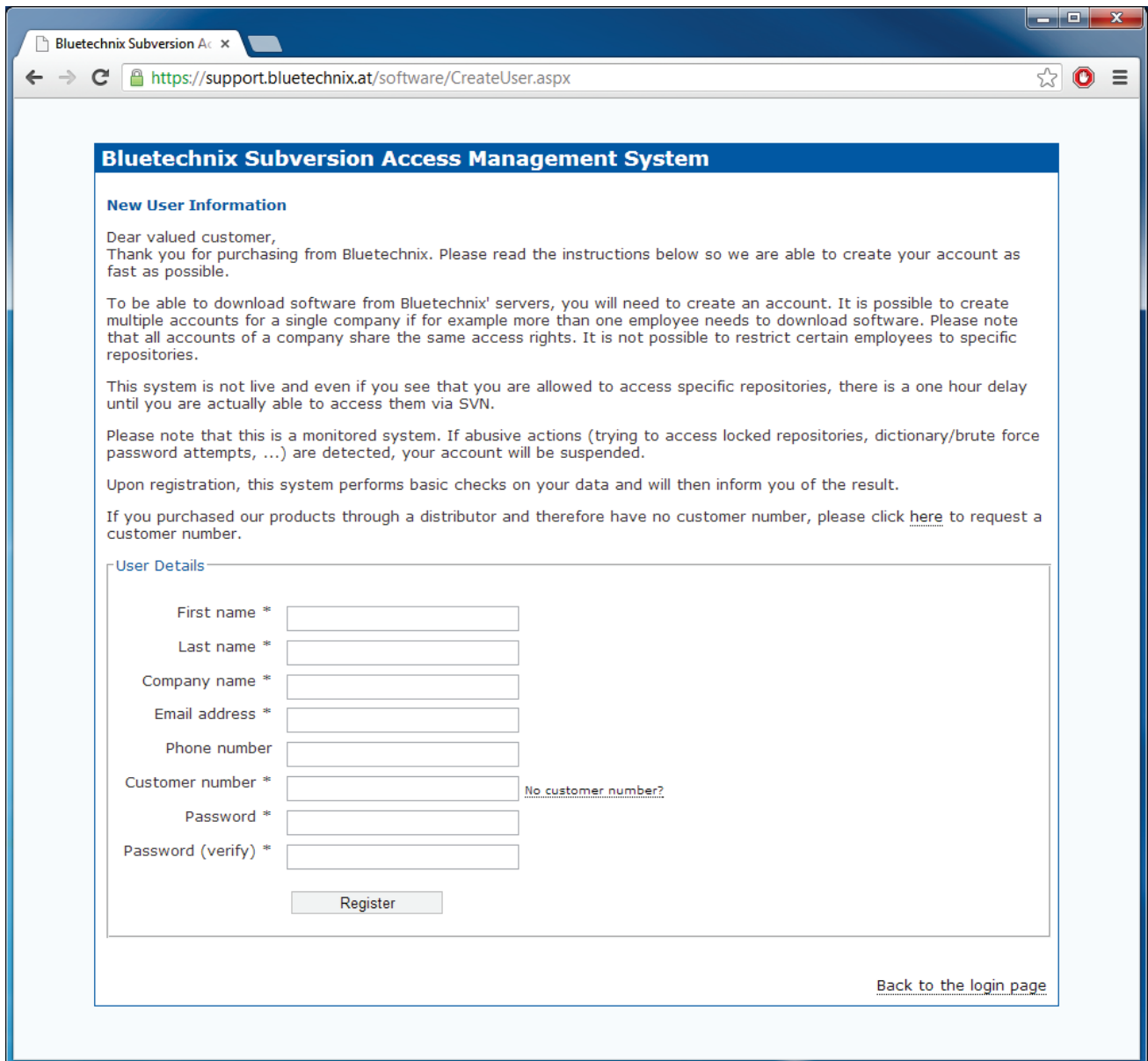
2.2 Login Screen

Figure 2-2: Login screen

2.3 Register as new customer

If you don't have a valid customer login you can create a new account at

<https://support.bluetechnix.com/software/CreateUser.aspx>



The screenshot shows a web browser window with the address bar displaying <https://support.bluetechnix.at/software/CreateUser.aspx>. The page title is "Bluetechnix Subversion Access Management System". The main content area is titled "New User Information" and contains the following text:

Dear valued customer,
Thank you for purchasing from Bluetechnix. Please read the instructions below so we are able to create your account as fast as possible.

To be able to download software from Bluetechnix' servers, you will need to create an account. It is possible to create multiple accounts for a single company if for example more than one employee needs to download software. Please note that all accounts of a company share the same access rights. It is not possible to restrict certain employees to specific repositories.

This system is not live and even if you see that you are allowed to access specific repositories, there is a one hour delay until you are actually able to access them via SVN.

Please note that this is a monitored system. If abusive actions (trying to access locked repositories, dictionary/brute force password attempts, ...) are detected, your account will be suspended.

Upon registration, this system performs basic checks on your data and will then inform you of the result.

If you purchased our products through a distributor and therefore have no customer number, please click [here](#) to request a customer number.

The "User Details" section contains the following form fields:

- First name *
- Last name *
- Company name *
- Email address *
- Phone number
- Customer number * (with a link [No customer number?](#))
- Password *
- Password (verify) *

A "Register" button is located below the form fields. At the bottom right of the form, there is a link [Back to the login page](#).

Figure 2-3: Registration form

3 Start using your EPC6xx ToF Evaluation Kit with 'Blt ToF Suite'

Browse to the directory where you previously saved the Visualizer software zip file. Unzip the software.

Using this software you can simply display the depth image and the amplitude image of the EPC6xx ToF Evaluation Kit. For a detailed introduction to the software, please read the 'BLT ToF Suite - Quick Start Guide.pdf'

Go to the directory where you unzipped the software and start the "*BltToFSuite.exe*". Select the correct UART port and press 'Connect'.

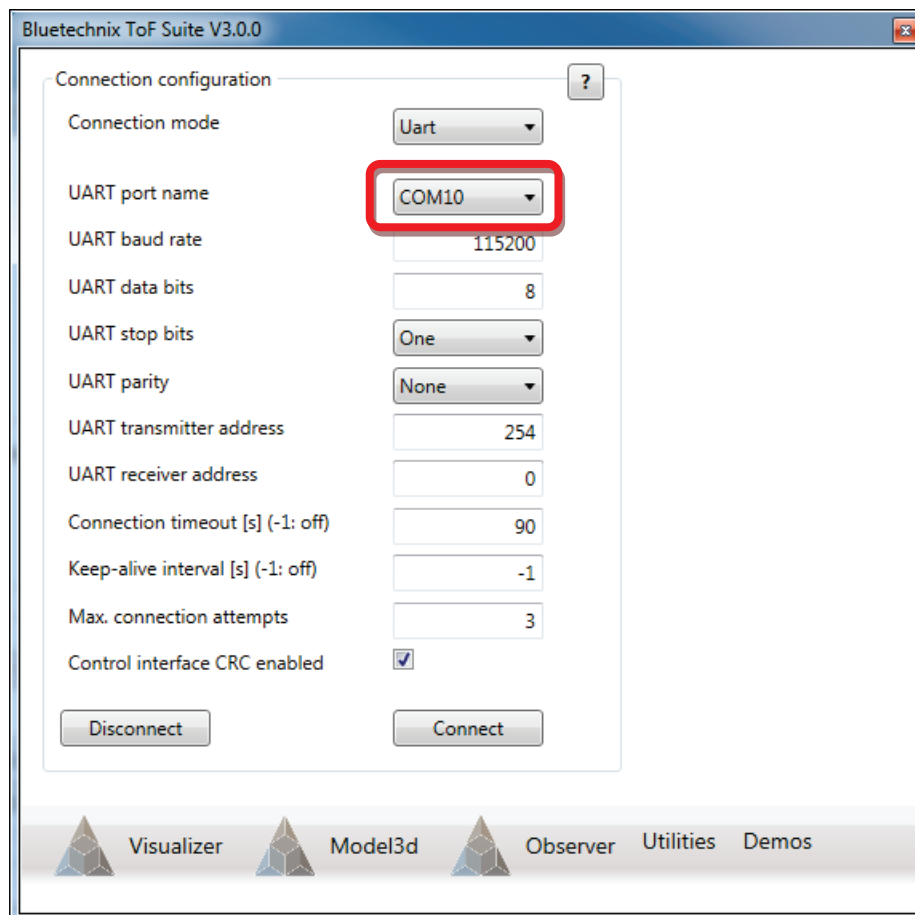


Figure 3-1 Connection dialog

After the USB connection has been done, you should see something like the screenshot below.

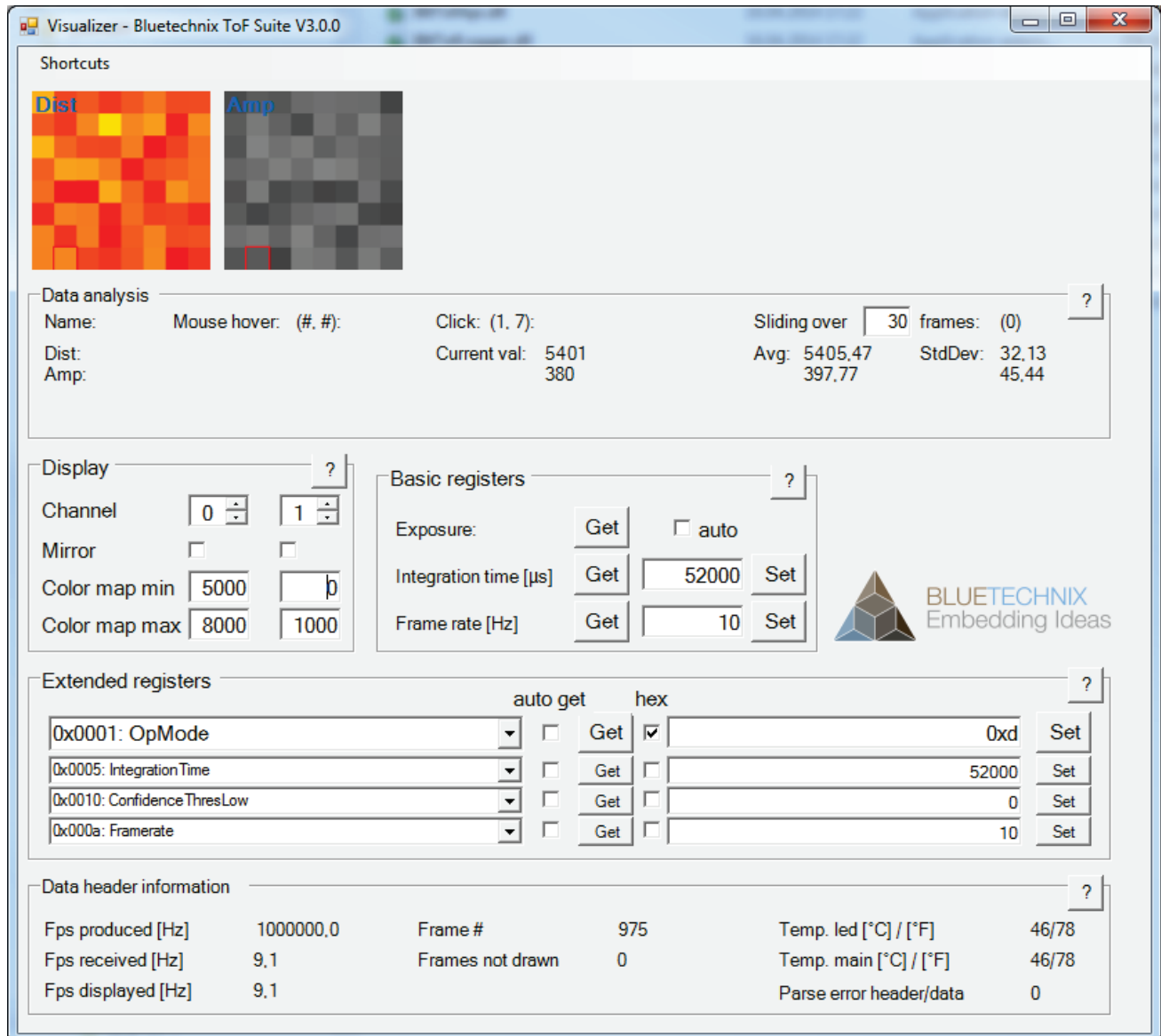


Figure 3-2: BLT ToF Suite screenshot

4 System Requirements & Support

An EPC6xx ToF Evaluation Kit enabled application is required in order to use this 'Tiny ToF' device.

Connect to a system with:

- Operating System: Microsoft Windows XP/7/Vista
- 32 bit (x68) or 64 bit (x64) processor
- Dual-core 2 GHz or faster CPU
- USB port
- 2GByte RAM

4.1 Bluetechnix ToF Suite

BLT ToF Suite is a .NET application and needs the **.NET framework 4.0** which is available from Microsoft for all actual Windows versions.

4.2 Support

For answers to common questions, troubleshooting steps and further documentation visit our Bluetechnix support website or using the direct link: <https://support.bluetechnix.at/wiki/TinyToF>



5 Product History

5.1 Version Information

5.1.1 EPC6xx ToF Evaluation Kit

Version	Release date	Firmware Version
X-Grade	May 2014	V1.0.0

Table 5.1: Overview EPC6xx ToF Evaluation Kit product changes

Additional information can be found at <http://support.bluetechnix.com>

5.2 Anomalies

Version	Date	Description
0.0.0		No anomalies reported yet.

Table 5.2: Product anomalies

Additional information can be found at <http://support.bluetechnix.com>

5.3 Document Revision History

Version	Date	Document Revision
0	20140422	First draft

Table 5.3: Revision history

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