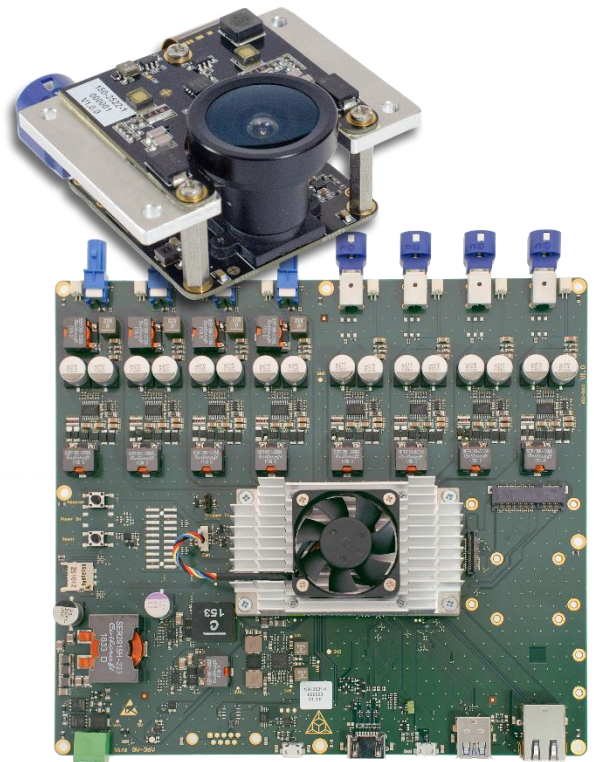


BLUETECHNIX  
Embedding Ideas

# multi-ToF platform

Quick Start Guide

Version 1



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multi-ToF platform – Quick Start Guide

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## Table of Contents

1	Unboxing .....	5
1.1	In the box .....	5
1.2	Connecting your multi-ToF platform.....	5
1.2.1	Connector Overview CamHub.....	5
1.2.2	Connector Overview Frontend.....	5
1.2.3	Connecting the Frontend .....	7
1.2.4	Connecting the power supply.....	7
1.2.5	Connecting the Ethernet cable .....	7
2	Downloading the Evaluation Software .....	8
2.1	Support website .....	8
2.2	Start-up screen .....	8
2.3	Prepare your Network Interface Card (NIC).....	10
3	Start using your multi-ToF platform with 'BltToFSuite' .....	11
4	System Requirements & Support.....	12
4.1	Support .....	12
5	Document Revision History.....	13

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#### **Information**

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

#### **Warning**

Due to technical requirements components may contain dangerous substances.

# 1 Unboxing

## 1.1 In the box

- multi-ToF platform CamHub
- multi-ToF platform Frontend
- LVDS cable
- Tripod mounting support
- CAT5/7 Ethernet Cable
- Quick Start Guide
- Power Supply \*



### \* Note

The power supply's operating temperature is specified from 0 to +40°C. This represents not the effective working temperature of the multi-ToF platform!

## 1.2 Connecting your multi-ToF platform

### 1.2.1 Connector Overview CamHub

- a. Power Connector
- b. Ethernet
- c. Twisted Pair LVDS Connector

### 1.2.2 Connector Overview Frontend

- a. Twisted Pair LVDS Connector

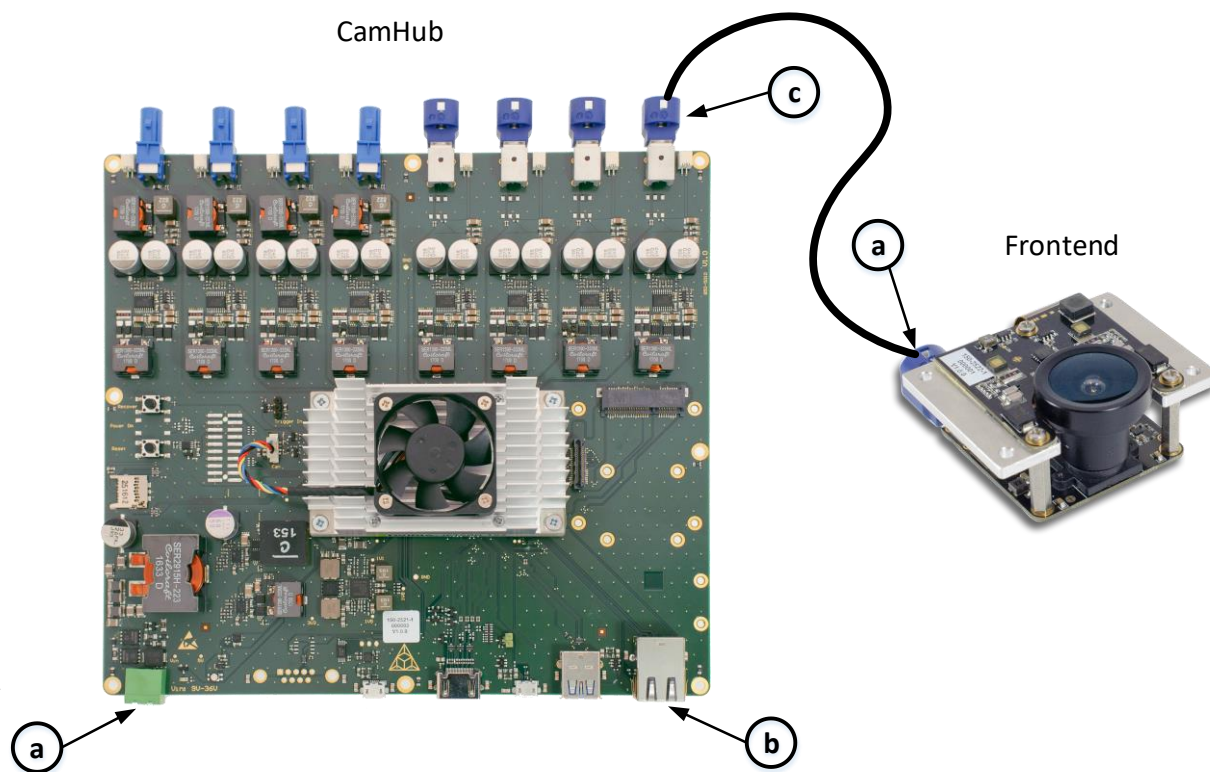


Figure 1-1: multi-ToF-platform connectors and interfaces

**Note**  
Please follow the next steps in the right order to get your 'multi-ToF platform' up and running correctly.

### 1.2.3 Connecting the Frontend

Use the LVDS cable (see Figure 1-2) to connect the Frontend (connector 'a') to the CamHub (connector 'c') as shown in Figure 1-1. Different cable lengths are available on request.



Figure 1-2: LVDS cable

### 1.2.4 Connecting the power supply

To ensure, that your multi-ToF platform works correctly, connect it to a **12-30V DC** power supply using connector **(a)** and wait until the camera boots up.

**Pin assignment on the power connector (a): Pin#1: GND, Pin #2: +12V to +30V, Pin #3: PE**



**Note**

The power supply connector is protected against wrong polarity but the device will not work in case you don't use the correct polarity! If the device doesn't work please check the power supply polarity first!

### 1.2.5 Connecting the Ethernet cable

Plug in the Ethernet cable **(b)** and connect your multi-ToF platform to your PC.

## 2 Downloading the Evaluation Software

Please log in to our support website at <https://support.bluetechnix.com/> and download the multi-ToF platform customer software package. This package also includes the Bluetechnix ToF-Suite.

### 2.1 Support website

Select ,Documentation‘

## Bluetechnix Support

Welcome to our support area. Please select from one of the items below.

### Support, Documentation & Software Download



Figure 2-1: Download Evaluation Package

### 2.2 Start-up screen

Select 'multi-ToF platform' as shown in Figure 2-2

Please follow the instructions on the website.



navigation

- [Main Page](#)
- [Depth Sensing](#)
- [Tiny Boards](#)
- [Software](#)
- [BLACKSheep](#)
- [Software Download](#)
- [Support](#)
- [Recent changes](#)

search

toolbox

- [What links here](#)
- [Related changes](#)
- [Upload file](#)
- [Special pages](#)
- [Permanent link](#)

print/export

- [Create a book](#)
- [Download as PDF](#)
- [Printable version](#)

## Depth Sensing

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### Products

#### Argos

- [Argos 3D - P100](#)
- [Argos 3D - P22x](#)
- [Argos 3D - P32x](#)
- [Argos 3D - P33x](#)

#### Sentis

- [Tiny ToF - epc610](#)
- [Sentis ToF - M100](#)
- [Sentis ToF - P100](#)
- [Sentis3D - M420](#)
- [Sentis3D - M421](#)
- [Sentis3D - M520 \(former named Sentis ToF - P510\)](#)
- [Sentis3D - M530](#)

#### Flash

- [ToF-Flash](#)

### Modules

#### ToF Modules (TIM)

- [TIM-UP-19k-S3-Spartan6](#)
- [TIM-UP-19k-S3-ETH](#)

#### Illumination Modules (LIM)

- [LIM-U-LED-850-x](#)

### Kits

#### MTK Evaluation Kits

- [MTK USB Evaluation KIT for TIM-UP-19k-S3-Spartan6](#)
- [MTK ETH Evaluation KIT for TIM-UP-19k-S3-ETH](#)

#### Other camera based Kits

- [multi-ToF platform](#)
- [Advanced Kit 2D + 3D based on \[Sentis-ToF-P510\]\(#\)](#)
- [Starter Kit Short Range based on \[Argos3D-P100\]\(#\)](#)
- [Starter Kit Long Range based on \[Argos3D-P100\]\(#\) and \[ToF-Flash\]\(#\)](#)

Figure 2-2: Support Wiki main page

## **2.3 Prepare your Network Interface Card (NIC)**

Once you have connected your multi-ToF platform to a Network Interface Card (NIC) of your PC give this NIC the IP-Address 192.168.0.1 with a subnet mask of 255.255.255.0.

No driver must be installed on your PC!

The multi-ToF platform uses IP-Address 192.168.0.10 with subnet mask 255.255.255.0.

### **3 Start using your multi-ToF platform with 'BltTofSuite'**

Browse to the directory where you previously saved the customer software zip file and unzip the file.

Place the multi-ToF platform on your desk.

Go to the tools/BltTofSuite directory from the zip file and start the "*BltTofSuite.exe*". On how to use the Bluetechnix ToF Suite, please refer to the user manual included in the software support package.

Using this software you can simply display the depth image and the amplitude image of your device. For a detailed introduction to the software, please read the 'Bluetechnix ToF Suite - Quick Start Guide'.

## 4 System Requirements & Support

A multi-ToF platform enabled application is required in order to use this device.

Connect to a system with:

- Operating System: Microsoft Windows 7/10
- 32 bit (x68) or 64 bit (x64) processor
- Dual-core 2 GHz or faster CPU
- Dedicated Ethernet port
- 2GByte RAM

### 4.1 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/Multi-ToF\\_platform](https://support.bluetechnix.at/wiki/Multi-ToF_platform)

## 5 Document Revision History

Version	Date	Document Revision
1	2018 02 12	First draft

Table 5.1: Revision history