

BLUETECHNIX  
Embedding Ideas

# MTK-ETH Evaluation-Kit TIM-UP-19k- S3-ETH



Quick Start Guide

Version 2

Bluetechnix

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MTK-ETH-Quick Start Guide

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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

- MTK-ETH Evaluation-Kit
- CAT5/7 Ethernet Cable
- Quick Start Guide
- Power Supply \*
- Mains cable
- Tripod

**\* Note**

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

### 1.2 Connecting your MTK-ETH Evaluation-Kit

#### 1.2.1 Connector Overview

- a. Power Supply
- b. GBit Ethernet (RJ45) 10/100/1000 Base-T

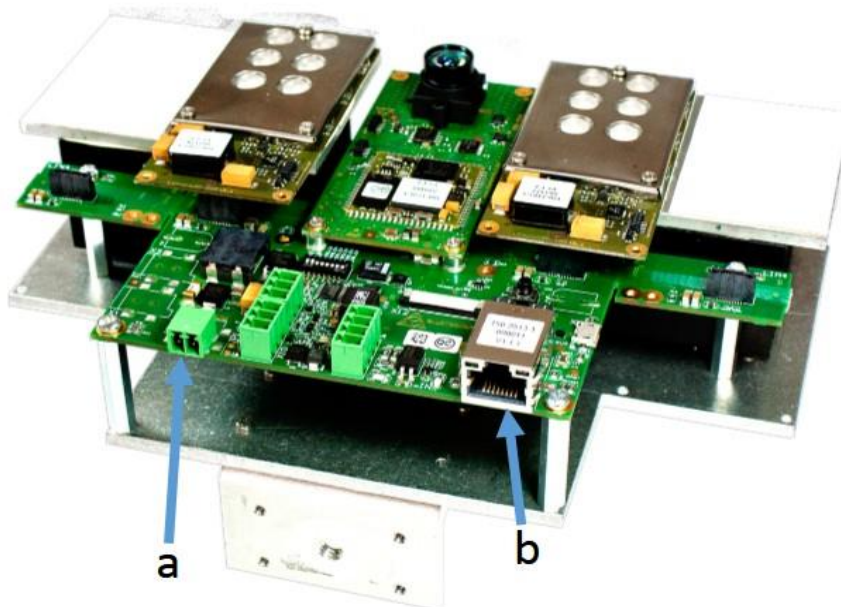


Figure 1-1: MTK-ETH connectors and interfaces

**Note**

Please follow the next steps in the right order to get your 'MTK-ETH' up and running correctly.

## 1.2.2 Power Connector (a)

### Pin assignment on the power connector:

Connector Type: 2.1mm ID / 5.5mm OD

Voltage: 18-30V



#### Note

Use inherently limited power sources only!

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

To ensure, that your MTK-ETH Evaluation-Kit works correctly, connect the 'MTK-ETH Evaluation-Kit' to the **24V DC** power supply using connector **(a)** and wait for approximately 20 seconds until the camera boots up.

## 1.2.3 GBit Ethernet Connector (b)

This standard RJ45 connector provides a 10/100/1000 Base-T interface to the MTK-ETH Evaluation-Kit.

Plug in the Ethernet cable **(b)** and connect your MTK-ETH Evaluation-Kit to your PC.

### 1.3 Overview of the Setup

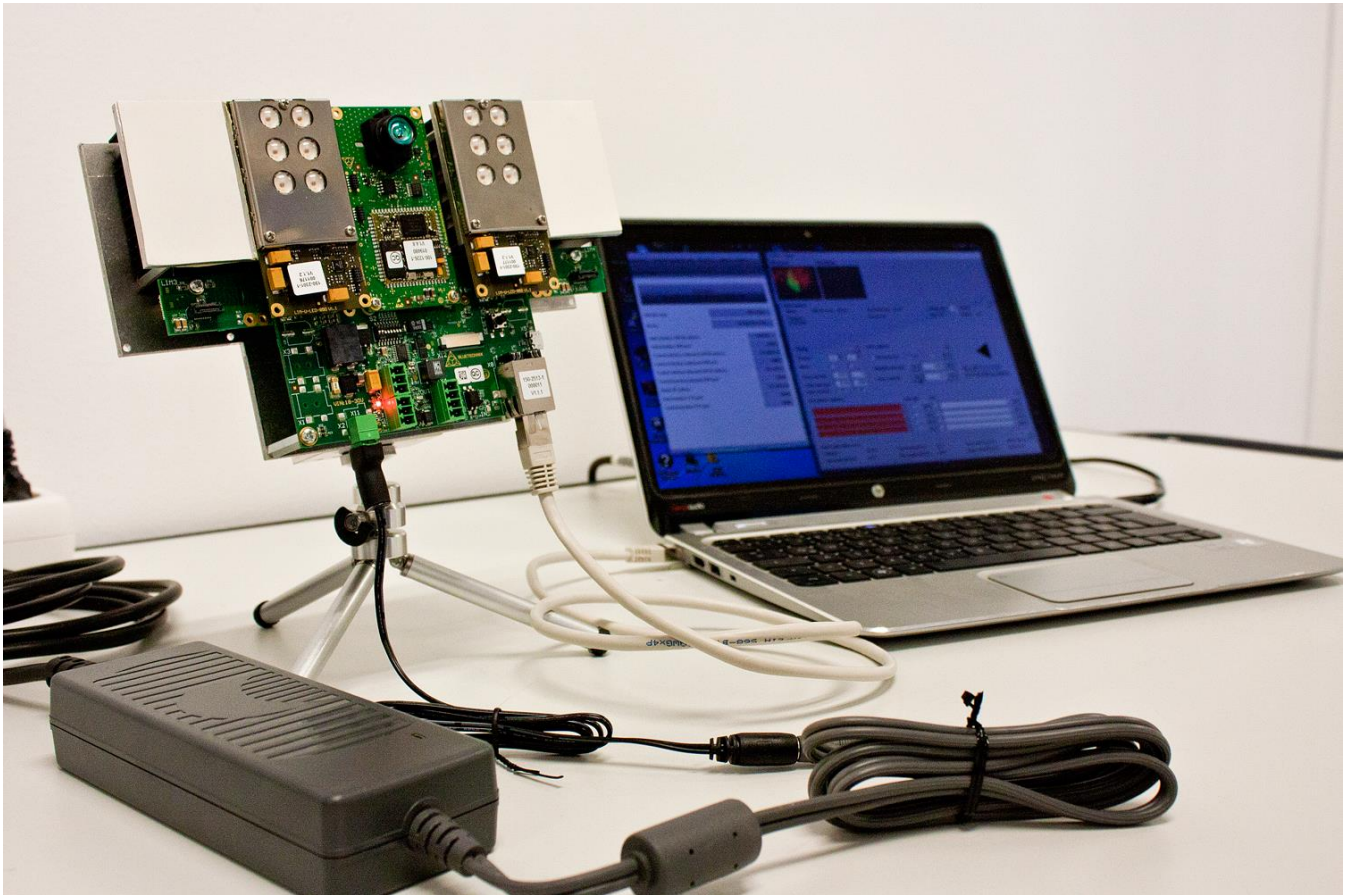


Figure 1-2: MTK-ETH with connected power supply and Ethernet cable

## 2 Downloading the Evaluation Software

Please point your browser to our support site <https://support.bluetechnix.com/> and select the 'Free Access' area.

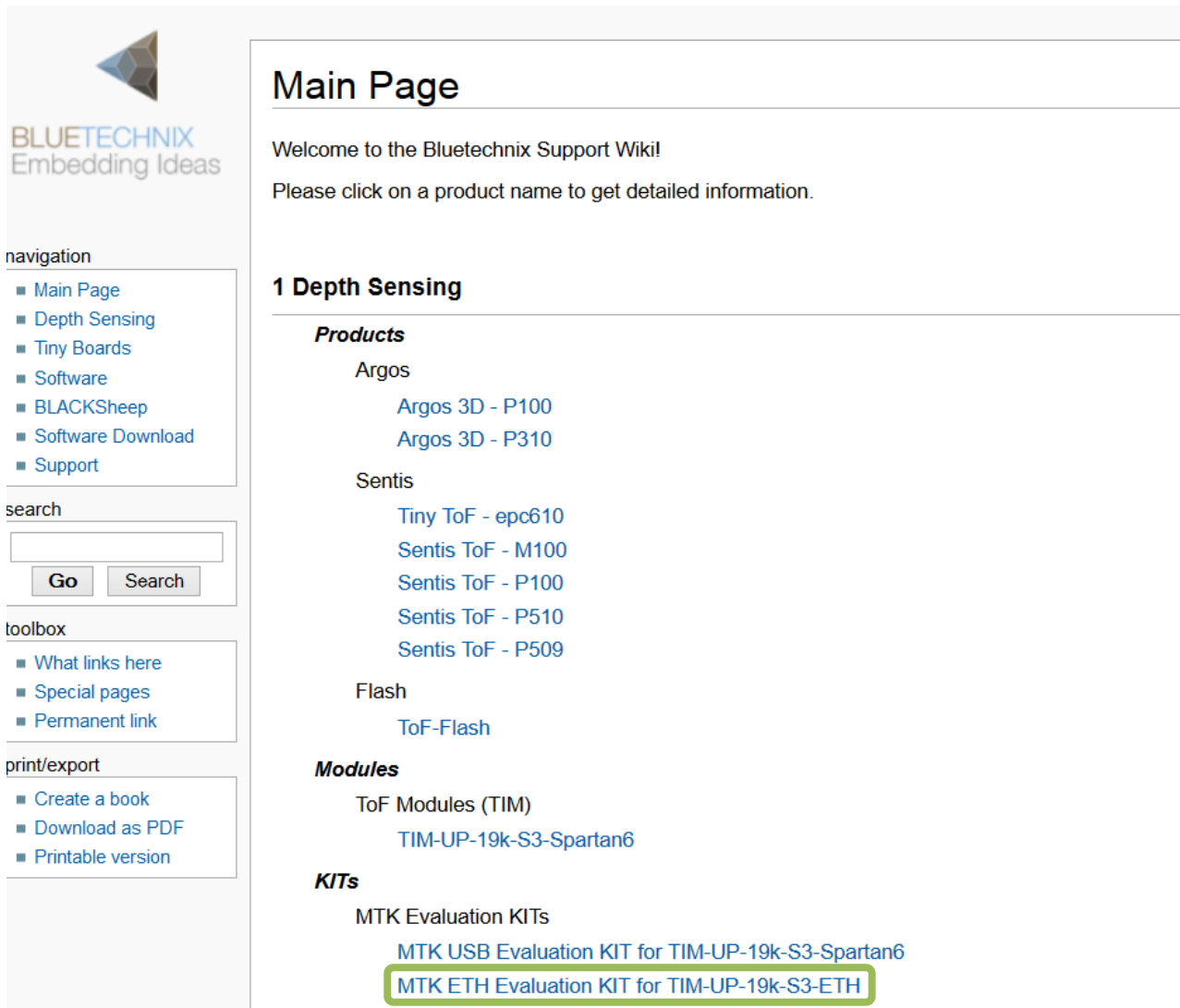
### 2.1 Support website



Figure 2-1: Bluetechnix support site



## 2.2 Start-up screen



**Main Page**

Welcome to the Bluetechnix Support Wiki!

Please click on a product name to get detailed information.

### 1 Depth Sensing

**Products**

Argos

- [Argos 3D - P100](#)
- [Argos 3D - P310](#)

Sentis

- [Tiny ToF - epc610](#)
- [Sentis ToF - M100](#)
- [Sentis ToF - P100](#)
- [Sentis ToF - P510](#)
- [Sentis ToF - P509](#)

Flash

- [ToF-Flash](#)

**Modules**

- [ToF Modules \(TIM\)](#)
- [TIM-UP-19k-S3-Spartan6](#)

**KITs**

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

Figure 2-2: Start-up screen

Please select your product: MTK-ETH Evaluation-Kit for TIM-UP-19K-S3-ETH

On the product support page please download the latest software support package from the download section.

## 2.3 Prepare your Network Interface Card (NIC)

Once you have connected your MTK-ETH 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 MTK-ETH uses IP-Address 192.168.0.10 with subnet mask 255.255.255.0.

### 3 Start using your MTK-ETH with 'BltTofSuite'

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

Place the MTK-ETH Evaluation-Kit on your desk approximately 50 cm in front of you.

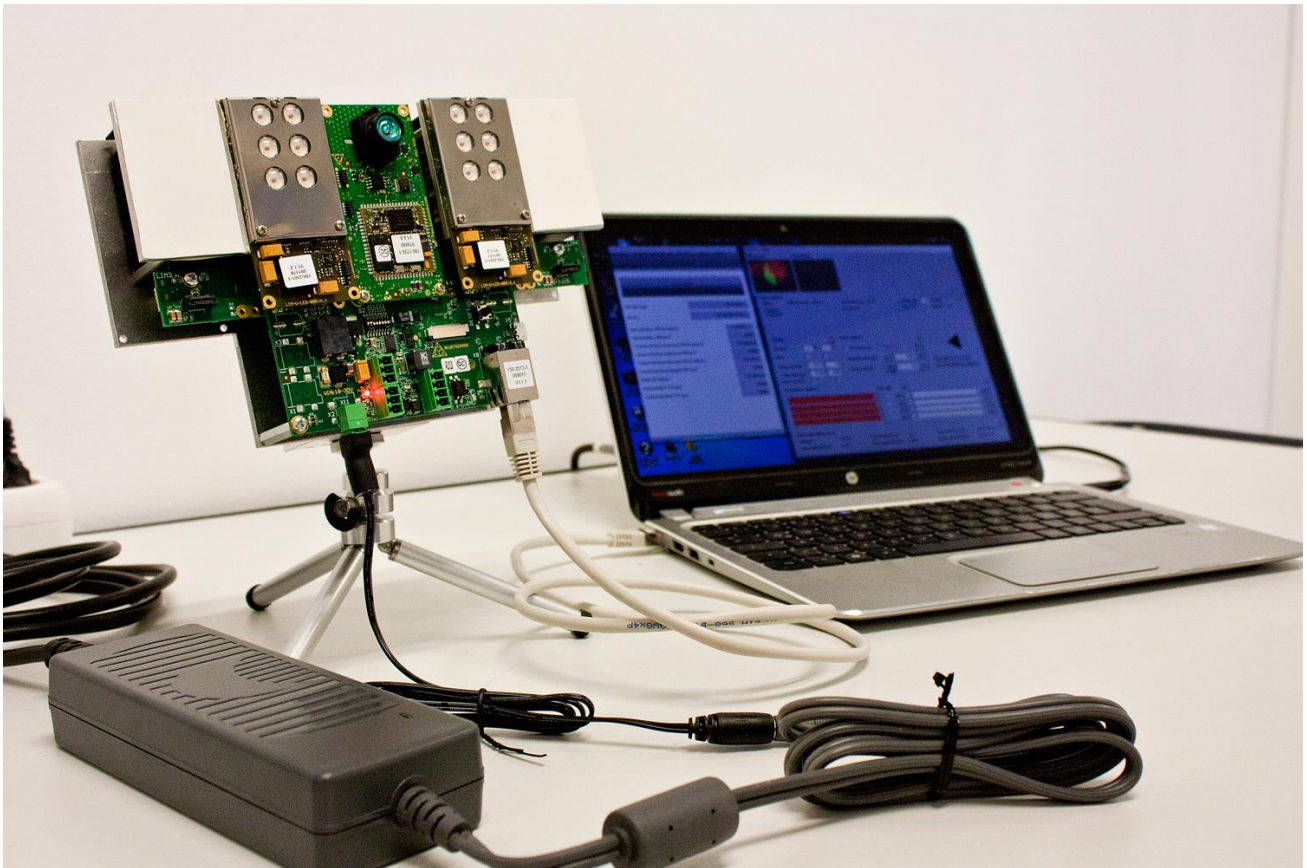


Figure 3-1: Sample scenario with MTK-ETH Evaluation-Kit

Browse to the directory where you previously saved the software support package zip file. Unzip the software. Browse to the tools directory. There you find the BltTofSuite. Start the BltTofSuite.

On how to use this software, connect and evaluate your product, please refer to the Bluetechnix ToF Suite user manual included in the software support package.

## 4 System Requirements & Support

- Operating System: Microsoft Windows 7/8/10
- 32 bit (x86) 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 <https://support.bluetechnix.at/wiki/>

## 5 Product History

### 5.1 Version Information

#### 5.1.1 MTK-ETH

Version	Release date	Firmware Version
X-Grade	March 2015	

Table 5.1: Overview MTK-ETH 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	20150307	First draft
1	20150327	First released Issue
2	20160210	Removed BltTofSuite section

Table 5.3: Revision history