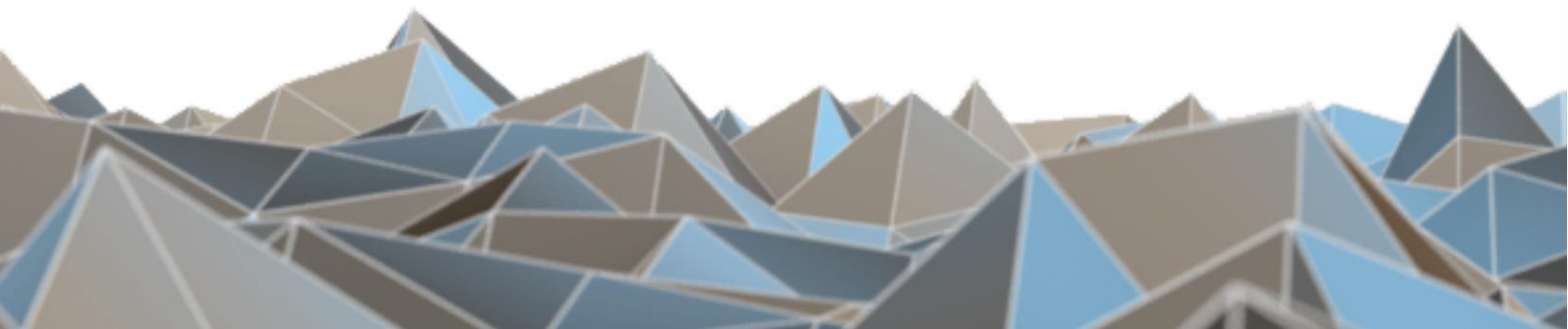
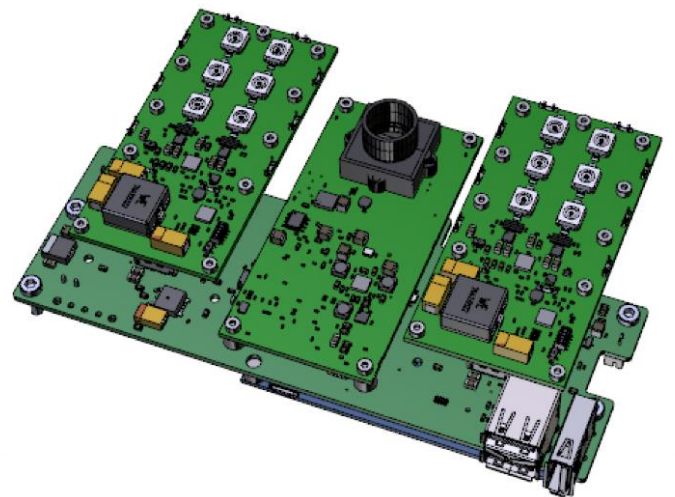


BLUETECHNIX
Embedding Ideas

Sentis-ToF- P509

Quick Start Guide

Version 3



Bluetechnix

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Sentis-ToF-P509 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

- Sentis-ToF-P509
- CAT5/7 Ethernet Cable
- Quick Start Guide
- Power Supply * + adapter-cable
- 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 Sentis-ToF-P509 sensor!

1.2 Connecting your Sentis-ToF-P509

1.2.1 Connector Overview

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

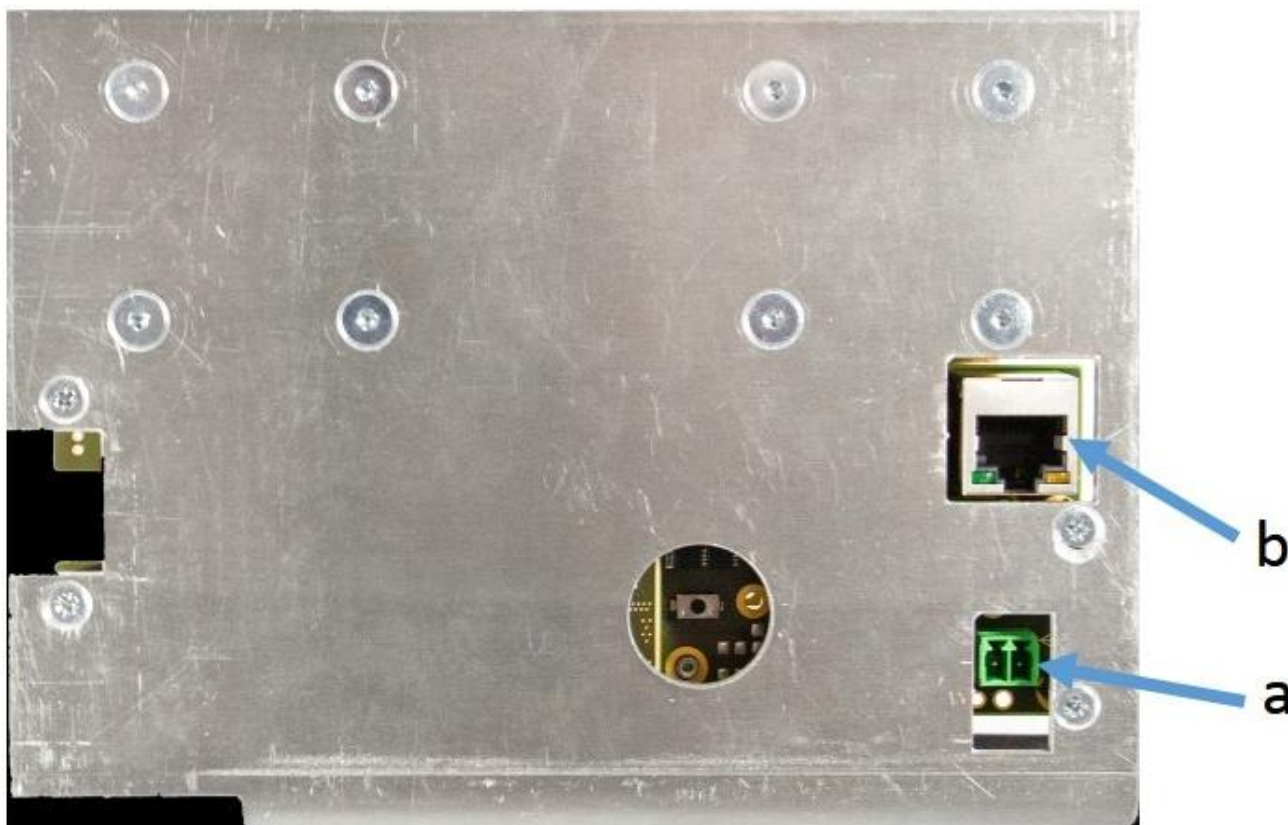


Figure 1-1: Sentis-ToF-P509 connectors and interfaces

**Note**

Please follow the next steps in the right order to get your Sentis-ToF-P509 up and running correctly.

1.2.2 Power Connector (a)

Connect the power supply to the power connector (a) using the adapter cable.

Pin assignment on the power supply connector (without connected adapter):

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 P509 will not work in case you don't use the correct polarity!

To ensure, that your P509 works correctly, connect the P509 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 P509.

Plug in the Ethernet cable **(b)** and connect your P509 to your PC.

1.3 Overview of the Setup

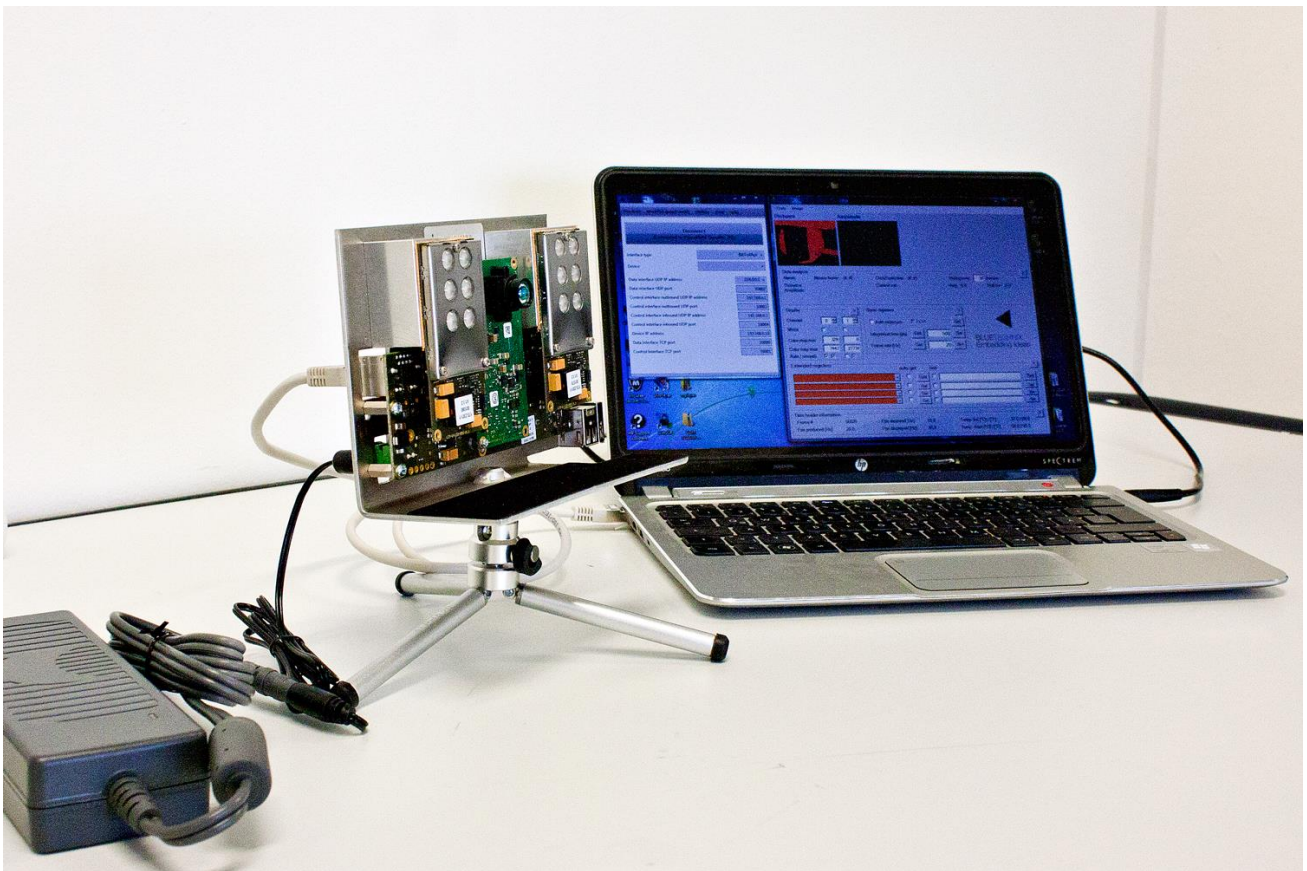


Figure 1-2: P509 with connected power supply and Ethernet cable

2 Downloading the Evaluation Software

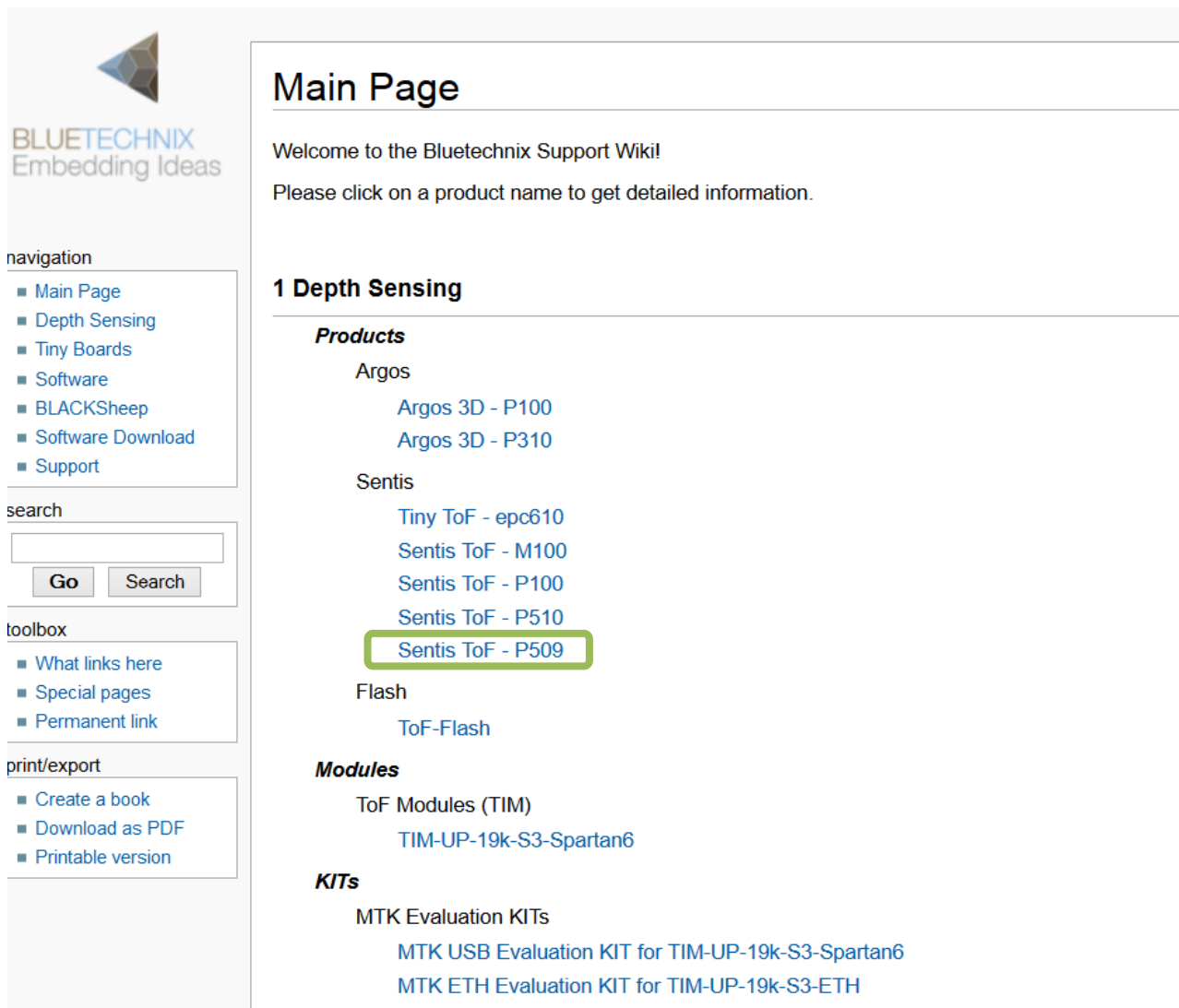
Please point your browser to our support site <https://support.bluetechnix.com/> and select the 'Free Access' area.

2.1 Support website



Figure 2-1: Bluetechnix support site

2.2 Start-up screen



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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: Sentis-ToF-P509

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

2.3 Prepare your Network Interface Card (NIC)

Once you have connected your P509 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 P509 uses IP-Address 192.168.0.10 with subnet mask 255.255.255.0.

3 Start using your Sentis-ToF-P509 with 'BltTofSuite'

Using this software you can simply display the depth image and the amplitude image of the P509. For a detailed introduction to the software, please read the 'Bluetechnix ToF Suite - Quick Start Guide'

Place the P509 on your desk approximately 50 cm in front of you.

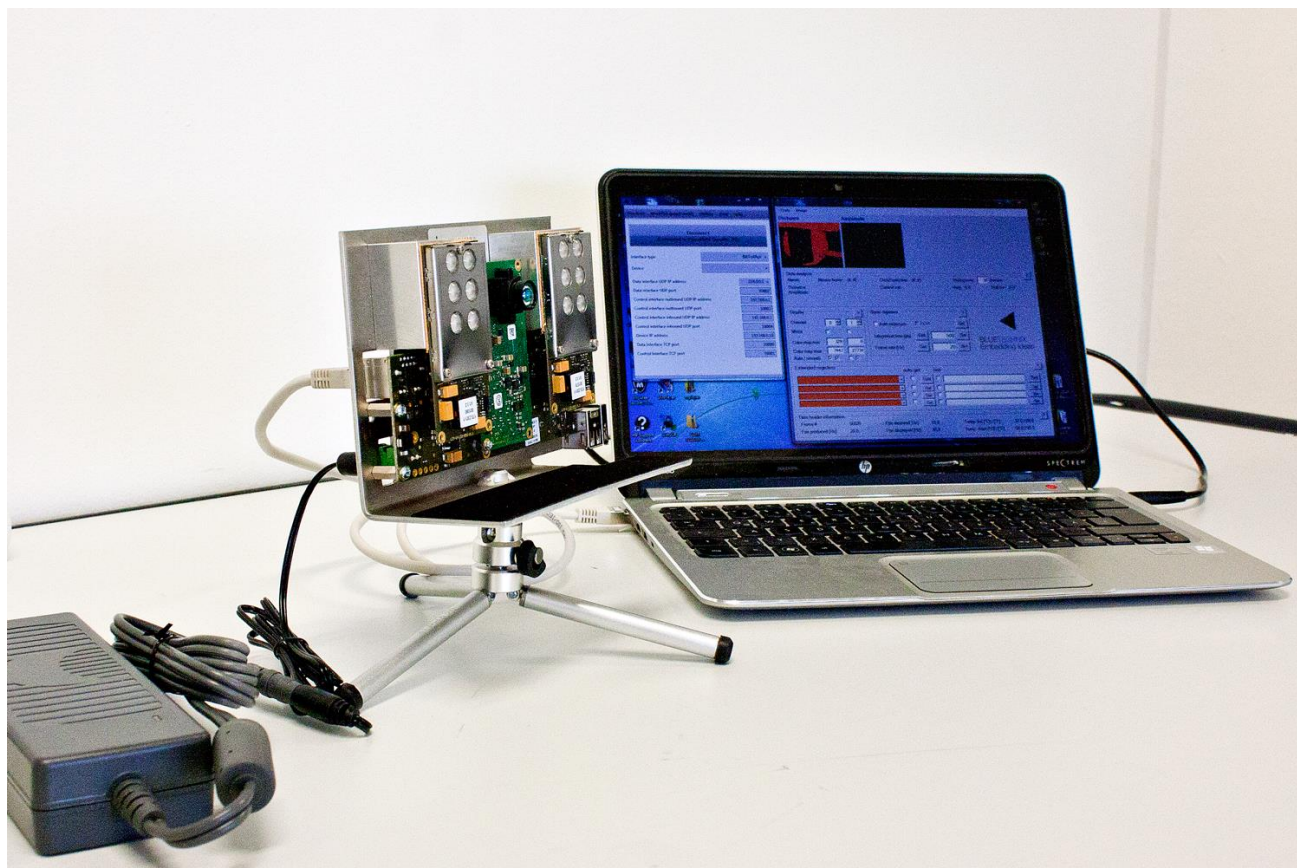


Figure 3-1: Sample scenario with P509 Evaluation-Kit

Browse to the directory where you previously saved the support package zip file. Unzip the software and start it. On how to use the Bluetechnix ToF Suite, please refer to the BltTofSuite user manual included in the support package.

4 System Requirements & Support

- Operating System: Microsoft Windows 7/8
- 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 <https://support.bluetechnix.at/wiki/>

5 Product History

5.1 Version Information

5.1.1 Sentis-ToF-P509

Version	Release date	Firmware Version
X-Grade	March 2015	

Table 5.1: Overview Sentis-ToF-P509 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	20150602	Wrong product name fixed Document version in header adjusted to new scheme
3	20160210	Removed BltTofSuite section

Table 5.3: Revision history