

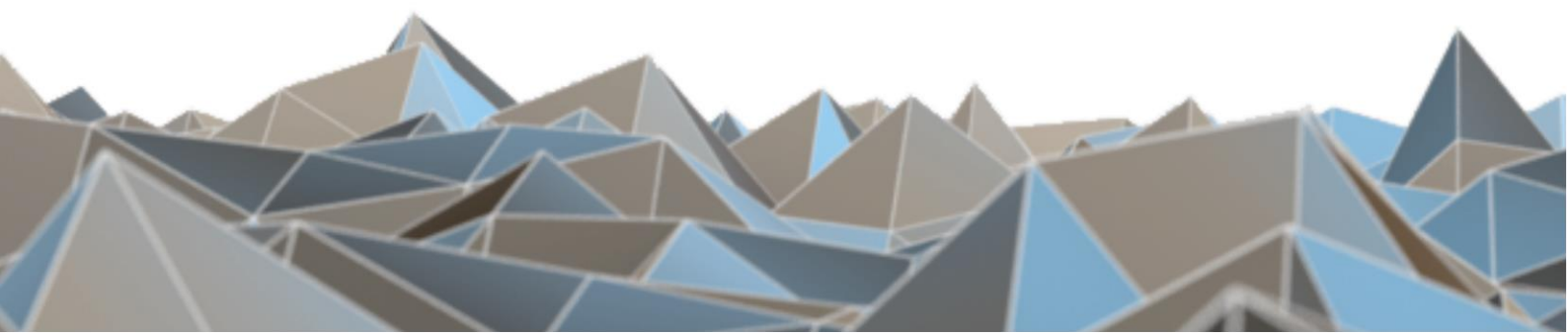
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Sentis3D-M530 (Sentis-P709)



Quick Start Guide

Version 2





Bluetechnix

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Sentis3D-M530-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

- Sentis3D-M530
- 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 Sentis3D-M530 sensor!

1.2 Connecting your Sentis3D-M530

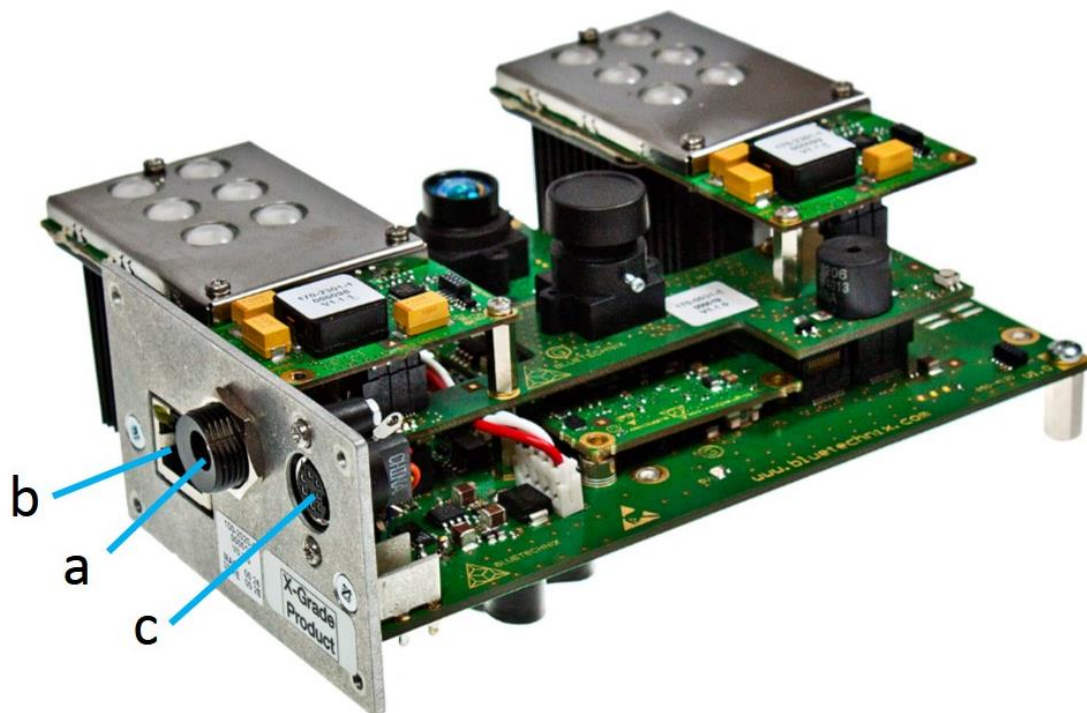


Figure 1-2: Sentis3D-M530 connector compartment screw positions

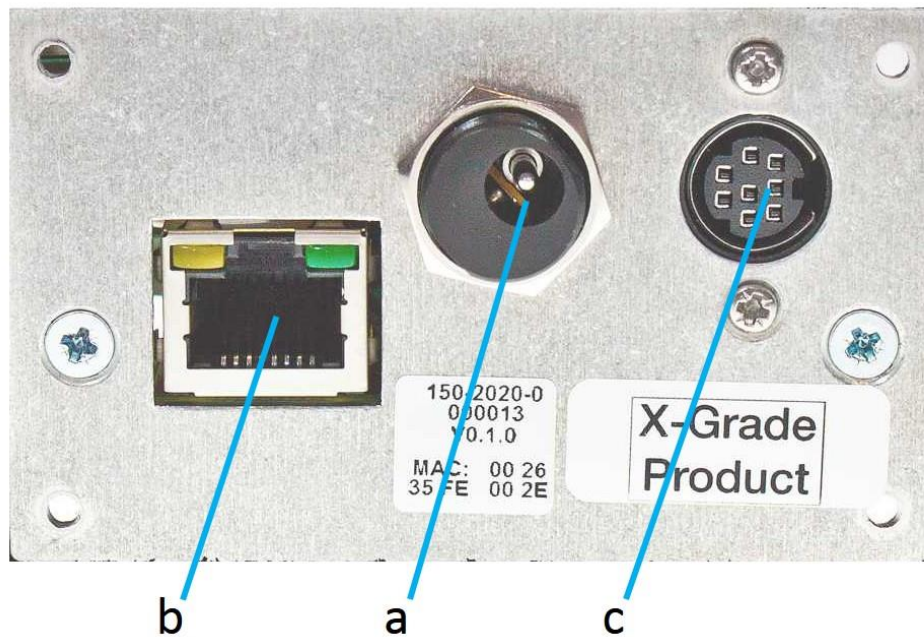


Figure 1-3: Front panel view

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



Note

Please follow the next steps in the right order to get your 'Sentis3D-M530' up and running correctly.

1.3 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 'Sentis3D-M530' will not work in case you don't use the correct polarity! If the Sentis3D-M530 doesn't work please check the power supply polarity first!

To ensure, that the Sentis3D-M530 works correctly, connect the 'Sentis3D-M530' to a **18-30V DC** power supply using connector **(a)** and wait for approximately 20 seconds until the camera boots up.

1.4 GBit Ethernet Connector (b)

This standard RJ45 connector provides a 10/100/1000 Base-T interface to the Sentis3D-M530.

Plug in the Ethernet cable **(b)** and connect your Sentis3D-M530 to your PC.



1.5 Extension Connector (c)

The Mini-DIN 8 connector provides several interfaces to connect the Sentis3D-M530 to external devices.

No.	Signal	Type	Description
1	GND	Power	Ground
2	nRESET	Input (100k pu)	Reset input (active low)
3	TRIGGER_IN	Input (100 pd)	Trigger input, 10-30V
4	OWIRE	Output	External OWIRE interface
5	MOD_P	Output	External Light modulation signal, differential, positive
6	MOD_N	Output	External Light modulation signal, differential, negative
7	GPIO	In-/Output	General purpose I/O (galvanic isolated)
8	Reserved	-	-

Table 1-1: Power connector pin-out

Note:



To use the output functionality of the GPIO pin an external pull-up resistor is necessary. This pull-up must be designed for a minimum current of 13mA. (e.g 1k5 pull-up to 20V)

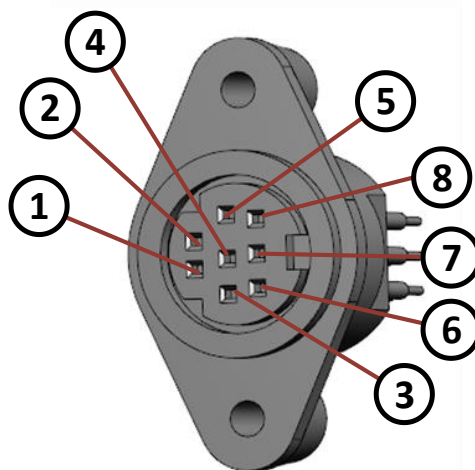


Figure 1-1 Extension Connector (Mini-DIN8) pin out

Description	Manufacturer	Part Number
Mini-DIN8 plug, male	CUI Inc	MD-80

Table 1-2: Mating connector

1.6 Overview of the Test Set-up

Test Set-up

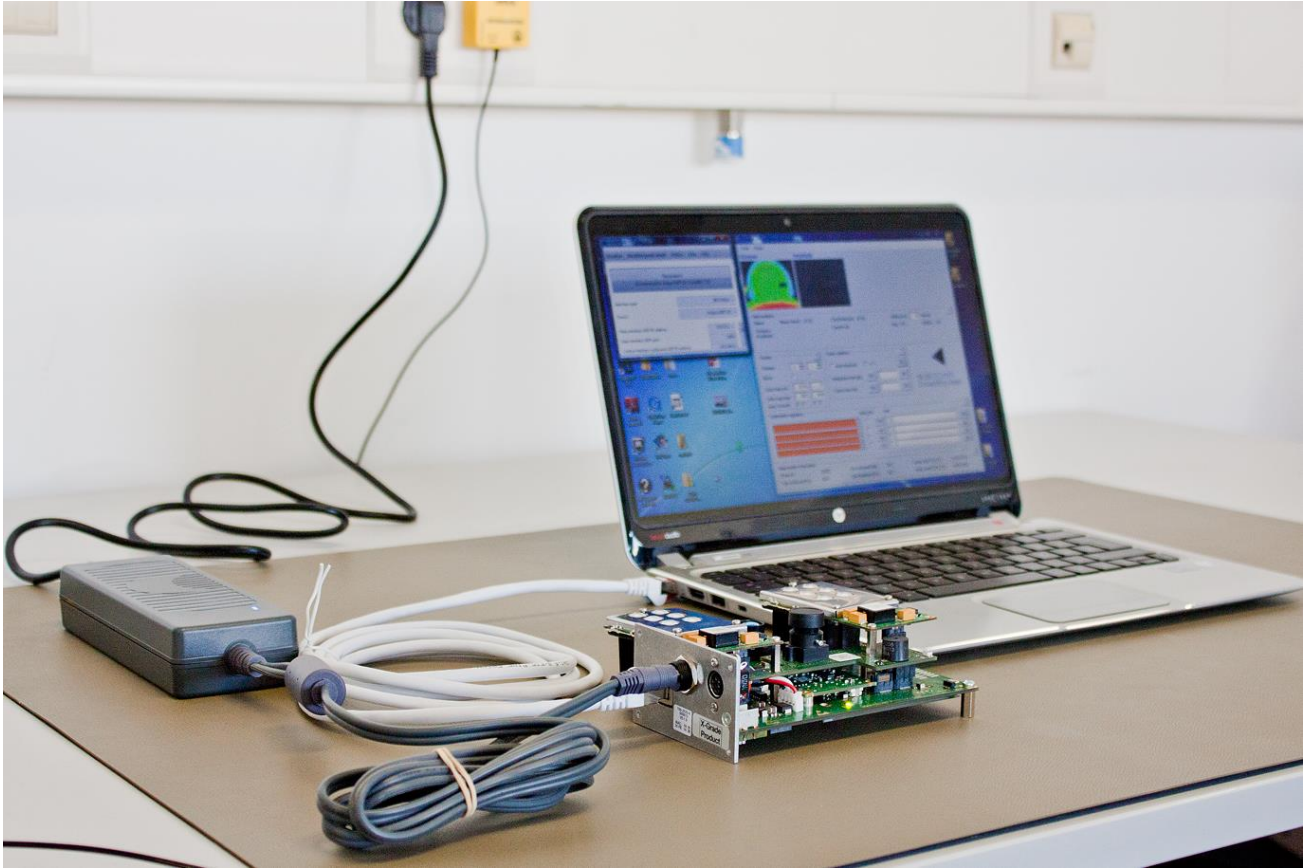


Figure 1-2: Sentis3D-M530 with connected power supply and Ethernet cable

2 Downloading the Evaluation Software

Please open our free support website at https://support.bluetechnix.at/wiki/Main_Page/ and download the Sentis3D-M530 software package. This package also includes the Bluetechnix ToF-Suite.

2.1 Support website

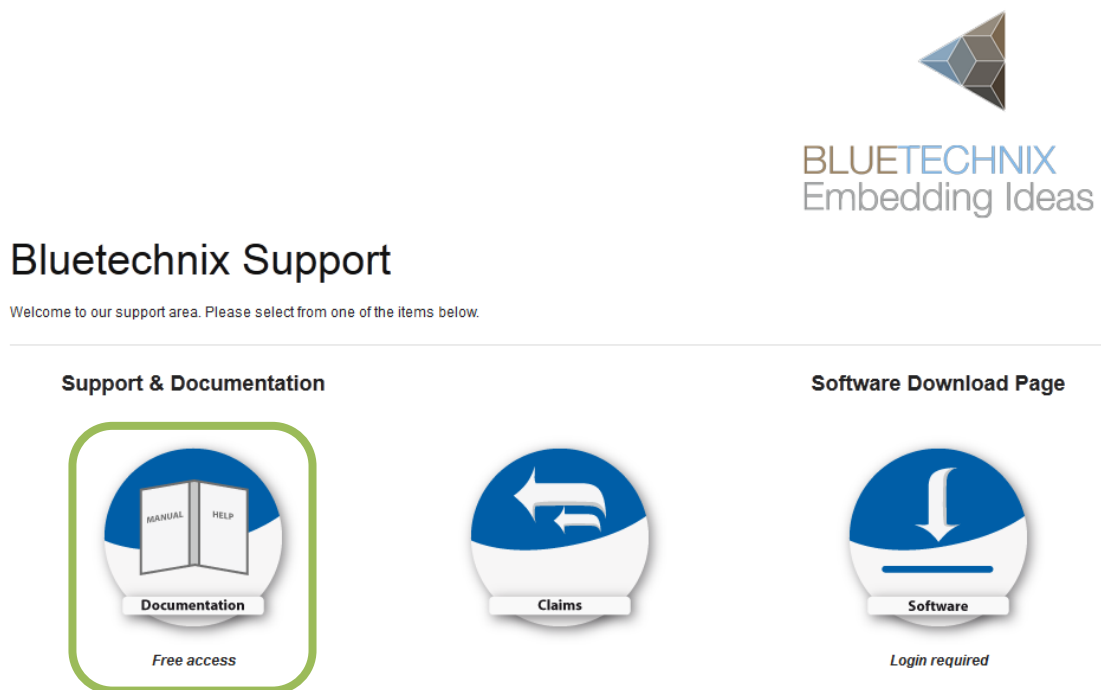
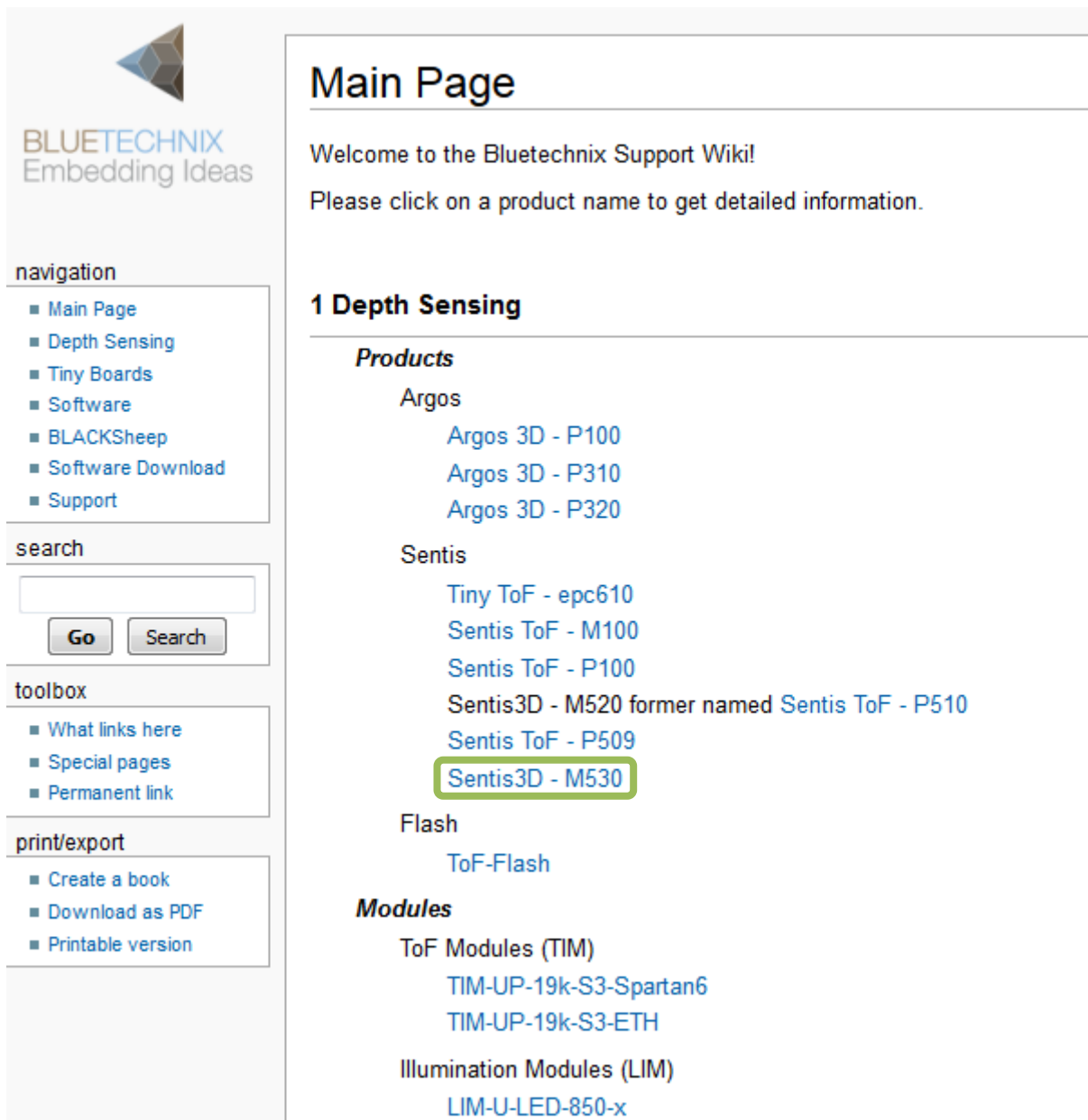


Figure 2-1: Download Evaluation Package

Please follow the instructions on the WEB-Site



2.2 Start-up screen



Please select your product: e.g. **Sentis3D-M530**

Figure 2-2: Start-up screen

2.3 Prepare your Network Interface Card (NIC)

Once you have connected your Sentis3D-M530 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 Sentis3D-M530 uses IP-Address 192.168.0.10 with subnet mask 255.255.255.0.



3 Start using your Sentis3D-M530 with 'BltTofSuite'

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

Please select Sentis3DM530 or SentisTofP510 as device to connect.



4 System Requirements & Support

A Sentis3D-M530 enabled application is required in order to use this 'Sentis3D-M530' device.

Connect to a system with:

- Operating System: Microsoft Windows 7 /8/8.1/10
- 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/Sentis3D - M530](https://support.bluetechnix.at/wiki/Sentis3D_-_M530).



5 Product History

5.1 Version Information

5.1.1 Sentis3D-M530

Version	Release date	Firmware Version
ES	January 2016	
X-Grade	April 2016	

Table 5.1: Overview Sentis3D-M530 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
1	20160210	First draft
2	20160421	Typos corrected Selection image updated

Table 5.3: Revision history