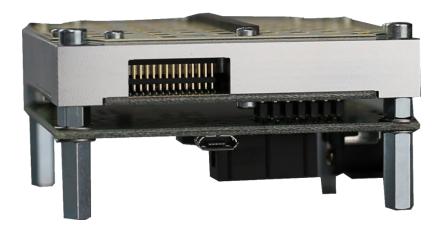
USER MANUAL iSYS-5011 Evaluation Kit



Revision: 1

Date: 10.12.2018

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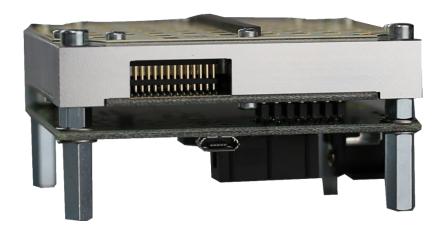
History

Document revision	Date	Change log	Author
1	2017-03-22	First release	TP

Documents

- [1] iSYS-5011 user manual rev_.pdf
- [2] target viewer manual rev_.pdf
- [3] serial radarSDK readMe rev_.pdf
- [4] iSYS serial interface protocol rev_.pdf

1. Brief description



The Evaluation Kit brings all necessary devices and stuff for a quick installation setup to evaluate the iSYS-5011 performance. Detected targets are shown in a 2D-plot within the Target-Viewer.

The iSYS-5011 Evaluation Kit consists of:

(1) iSYS-5011



(2) Interface-Board





(4) SPI protocol analyzer

(5) USB cable



(6) Software-Package



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1.1. iSYS-5011

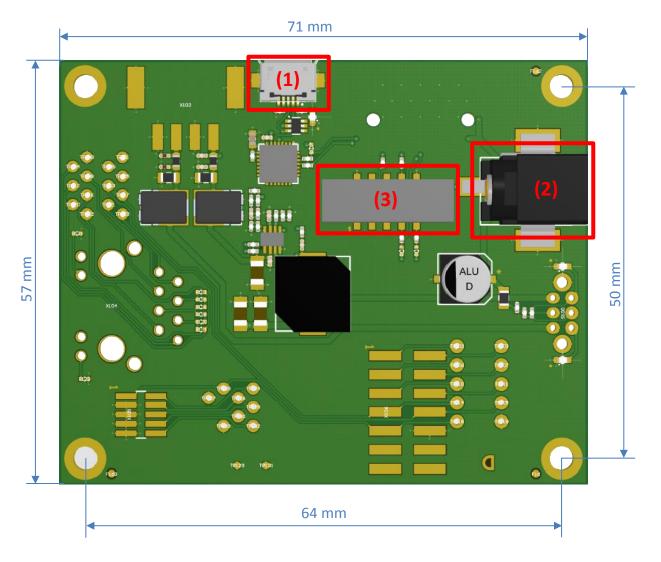


Please regard the iSYS-5011 datasheet [1] and User Manual [2] for detailed product information.

disclosed by the recipient to third parties without prior consent of InnoSenT in writing.

1.2. Interface-Board

The interface board contains a voltage regulator for iSYS-5011 power supply, a connector for Beagle SPI protocol analyzer and an USB to UART Bridge for UART connection.



(1) Micro USB plug (Part No: 629105136821, Würth Elektronik)

(2) DC power jack (Part No: 694108105102, Würth Elektronik)

(3) Box Header 2.54mm for Beagle SPI Protocol-Analyzer

1.3. Power-Supply

The Evaluation Kit contains the VOLTCRAFT USPS-1000 plug-in power unit.

1.3.1. Prepare USPS-1000

(1) Unpack power supply



(2) Set voltage to 12V



(3) Insert correct plug with GND outside

1.3.2. Supply voltages

If not using the VOLTCRAFT USPS-1000 please prepare your power supply according Table 1.

	Comment	Symbol	min.	typ.	max.	Unit
Supply voltage		V _{CC}	11	12	13	V
Ripple		V _{ripple}			360	mV
Current		I		350	500	mA

Table 1: power supply parameters

1.4. SPI protocol analyzer

The Target-Viewer supports the Beagle SPI protocol analyzer from Total-Phase only.

Install the Beagle drivers delivered on the attached CD for proper working.



1.5. USB cable

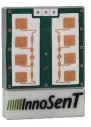
Please use attached USB cable with USB-A to micro-USB plugs for UART connection.

The driver for the USB to UART Bridge of the CP2102 device will be installed automatically after connection to a Windows PC.



1.6. Software-Package

The Software-Package includes all iSYS-5011 Evaluation Kit documents and the Software-Tools provided by InnoSenT.

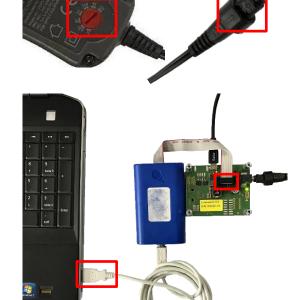


2. Setup iSYS-5011 Evaluation Kit

Prepare the iSYS-5011 Evaluation Kit in a few steps:

1) Setup USPS-1000 Power-Supply according 1.3.1

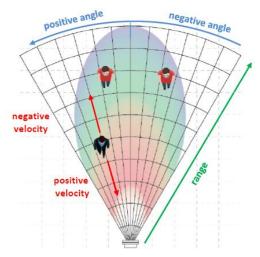
2) Connect Beagle to Interface-Board and PC



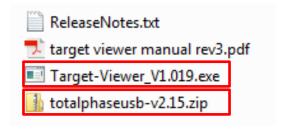
3) Connect USB-cable to Interface-Board and PC



4) Align iSYS-5011 into direction of the targets described in iSYS-5011 user manual [1]

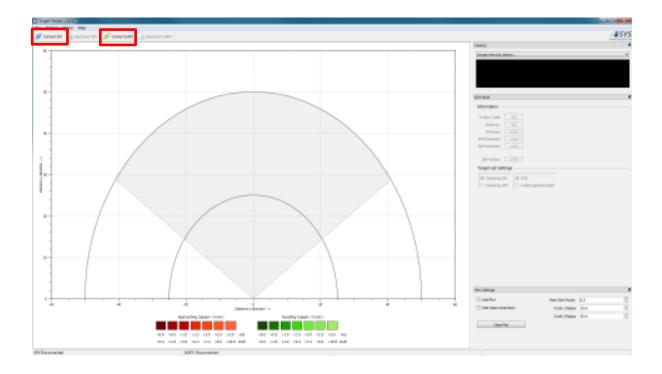


5) Install Beagle driver first, then InnoSenT Target-Viewer described in target viewer manual [2] Both attached in the Software-Package folder \GUI\..



6) Start Target-Viewer and connect interfaces described in target viewer manual [2]





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