Quick starting guide TLI493D-W2BW Shield2Go

S2GO_3D_TLI493DW2BW-A0

Infineon Sense and Control V1.0





TLI493D-W2BW Shield2Go - Overview





- The Shield2Go provides an easy to use evaluation board for the 3D magnetic sensor TLI493D-W2BW
- Contents of the kit:
 - PCB with assembled sensor
 - Standalone ferrite magnet
 - Solderless pin headers
- Intended to be used with a XMC1100 2GO kit for full compatibility and evaluation software support (OPN: KITXMC2GOXMC1100V1TOBO1)
- A variety of available magnetic extensions allow to test the sensor directly on application level

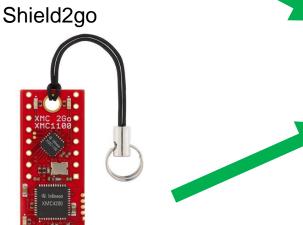


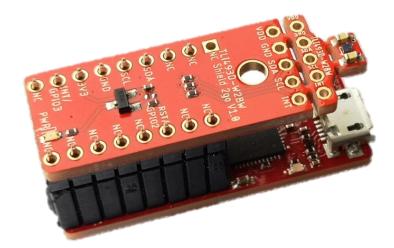


Getting started - Hardware



- Stack the TLI493D-W2BW Shield2Go on an XMC1100 2Go (Sensor above the USB connector)
- 2) Connect the XMC1100 2Go via a micro USB cable to the PC





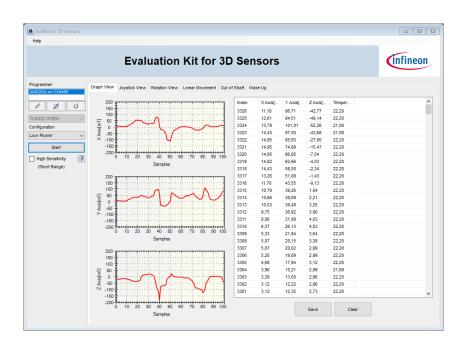
XMC 2GO

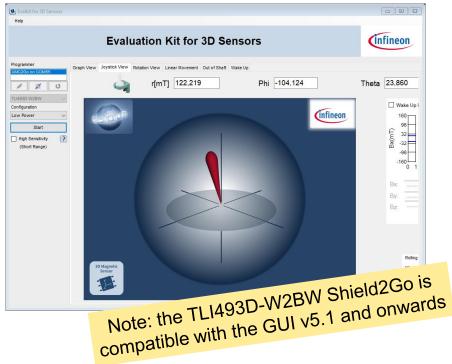
https://www.infineon.com/cms/de/product/evaluation-boards/kit xmc 2go xmc1100 v1/



Getting started - Software

- Download and install the **GUI for 3D Magnetic Sensor 2Go** from: https://www.infineon.com/cms/de/product/sensor/magnetic-sensors/magnetic-positionsensors/3d-magnetics/#!tools
- Connect the board via USB, start the **3D 2GO** application, click on "Connect" and "Start"
- Use the provided magnet or additional magnetic extensions to evaluate!

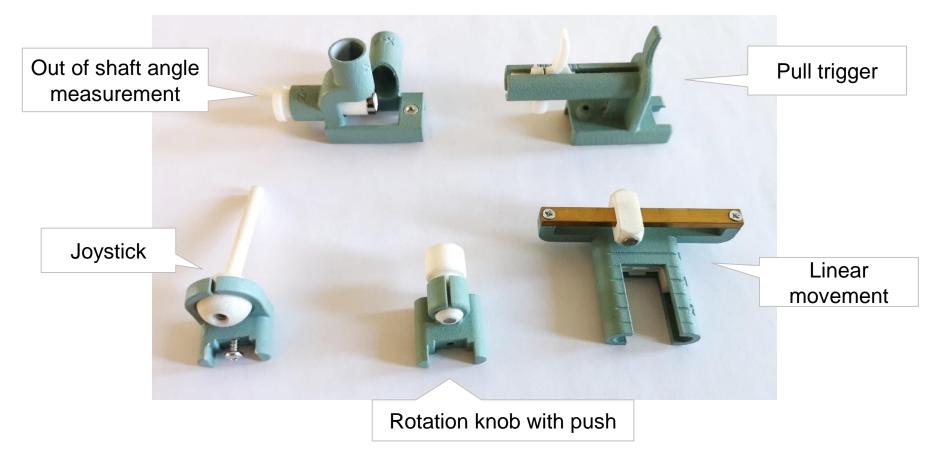






Getting started - Magnetic extensions

To test **typical 3D magnetic sensor applications** there are additional magnetic extension available that can be directly mounted to the Shield2Go. For example:

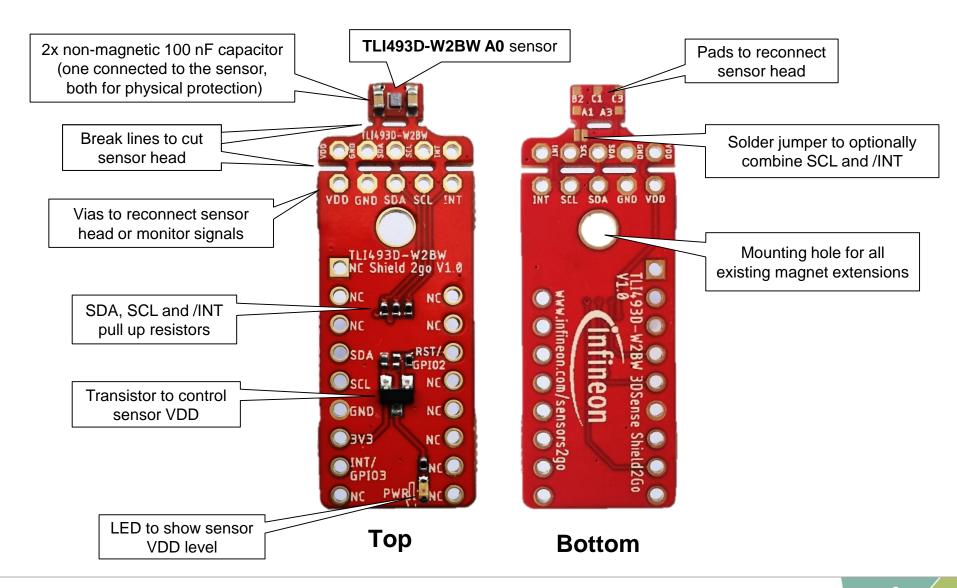


https://www.infineon.com/cms/de/product/sensor/magnetic-sensors/magnetic-position-sensors/3d-magnetics/#!boards



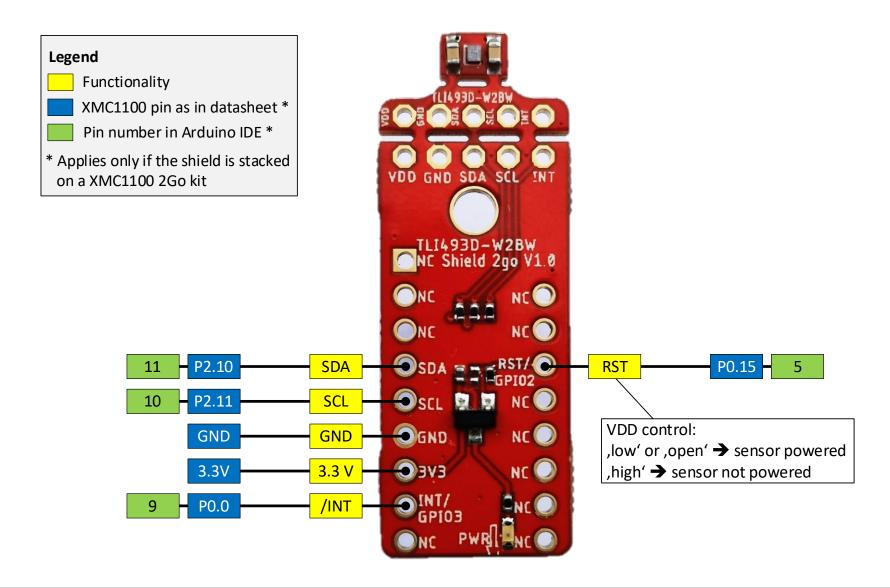
Board TLI493D-W2BW S2GO v1.0





Pinout TLI493D-W2BW S2GO v1.0

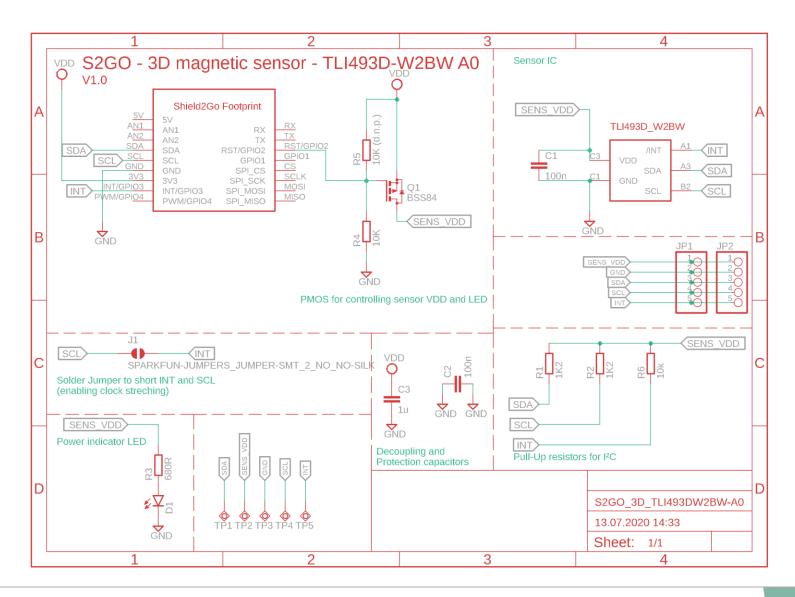




Schematic

TLI493D-W2BW S2GO v1.0



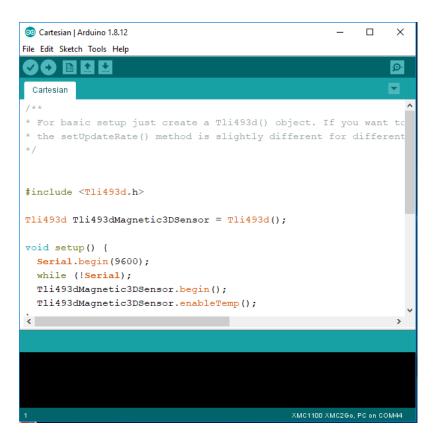




Advanced software support

Arduino library

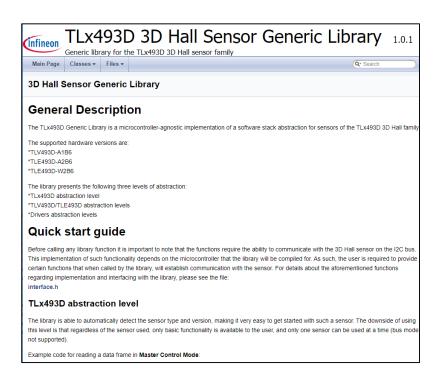
→ Simple start to your own firmware



https://github.com/Infineon/TLI493D-W2BW

Generic C code library

→ To use full sensor capabilities



https://www.infineon.com/cms/de/product/sensor/magnetic-sensors/magnetic-position-sensors/3d-magnetics/#!tools



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