

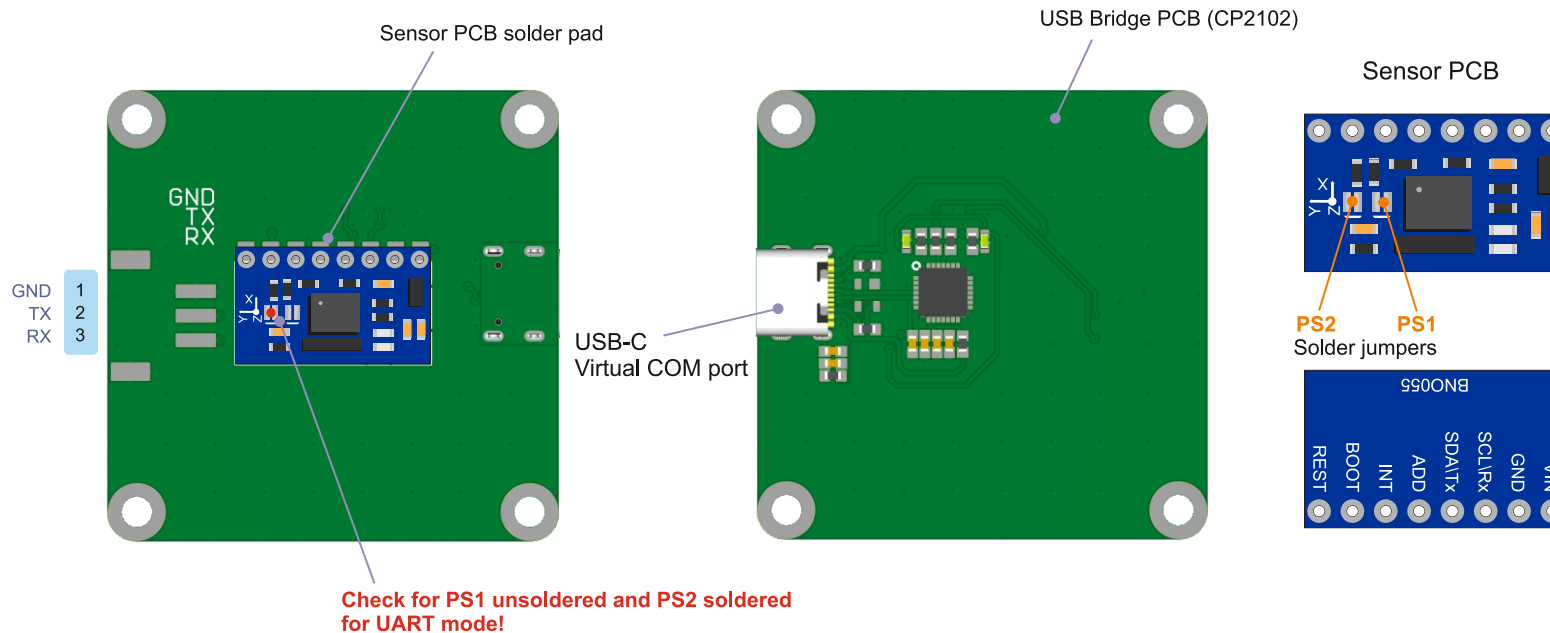
# VBCore BNO055 IMU USB bridge

BNO055 - Inertial Measurement Unit designed for robotics and automation applications. VBCore USB-UART bridge for OEM BNO055 sensor - easy way connect sensor to PC.

**VB**Core

[www.vbcores.com](http://www.vbcores.com)

Electronics for robotics  
research and development



## VBCore BNO055 IMU USB Bridge

USB-C: VCP

USB-UART bridge IC: CP2102

UART: Optional

Dimensions: 46x46mm

Mount holes: 40x40mm D2.5 mm

IMU Sensor: BNO055 (OEM)

## NOTES:

The VBcores BNO055 IMU Converter device consists of two parts: a BNO055 sensor and a USB adapter board  
- **please note that the BNO055 (OEM) sensor module is sold separately.**

The converter based on CP2102 IC, which provides a USB to UART bridge and creating a virtual COM port on the host computer.  
The required drivers are available on the manufacturer's website at <https://www.silabs.com/software-and-tools/usb-to-uart-bridge-vcp-drivers>.

For the device to function correctly, the BNO055 sensor must be soldered to the adapter board and configured for UART communication by ensuring the boot configuration solder jumps are set: PS1 > Open and PS2 > Closed.

The Linux driver and ROS packages are available on documentation pages at [www.vbcores.com](http://www.vbcores.com) or [www.vbcores.ru](http://www.vbcores.ru).

The BNO055 is a System in Package (SiP), integrating a triaxial 14-bit accelerometer, a triaxial 16-bit gyroscope with a range of  $\pm 2000$  degrees per second, a triaxial geomagnetic sensor and a 32-bit cortex M0+ microcontroller running Bosch Sensortec sensor fusion software, in a single package. For comprehensive details, please read the official manufacturer documentation.