

### KIT CONTENTS/ FEATURES

- **STIM210 communication and power cable**
- **Converter hardware for USB to RS422 or PCI to RS422**
- **User manual**
- **PC software**
- **Data presentation and log to file capability**
- **Graphical demo mode view capability**



USB cable



PCI card

### DESCRIPTION

Two alternative STIM210 evaluation kits are available.

The evaluation kit with USB connectivity provides easy setup on a laptop or PC with access to rate measurement and device configuration. The kit includes a USB to RS422 cable and a STIM210 communication and power cable.

The evaluation kit with PCI connectivity is the preferred solution for thorough characterizing of the STIM210 gyro module. Access to a PC with a PCI slot is required for this kit. The kit contains the necessary PCI card and the STIM210 communication and power cable.

The only difference between the two kits is the hardware interface, where the PCI interface provides the most robust solution. The USB interface only supports a single RS422 transmission bit rate of 460800 baud.

The communication and power cables for the two kits are identical. Individual STIM210 communication and power cables, USB to RS422 cables, and PCI cards are available for purchase.

The PC software supports high speed data sampling frequency, graphical presentation, data log to file, and a demo mode view.

The kits provide access to all user configurable parameters, such as:

- Low pass filter frequency
- Sampling frequency
- Output format
- RS422 transmission bit rate
- Number of stop bits in datagram
- Parity bit and line termination (on/off)

Some of the parameters that can be read using the evaluation kits are:

- Unit part number
- Serial number
- Firmware revision
- Hardware revision

STIM210 diagnostic information is also accessible, including RAM and flash checks, stack handling checks, status of internal voltage supply references, and various parameter reports for each of the measurement axes.

The demonstrator part of the PC software provides a real-time view of angular rate and increment angle data from the STIM210 gyro module.

Time of Validity (TOV) and external trigger functionality of STIM210 are not supported or demonstrated by these evaluation kits.

The evaluation tool does not include the STIM210 gyro module.