

# STIM210/ STIM277H

Evaluation kit  
User Manual



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## 1 EVK features

- PCIe kit:
  - PCIe connectivity to PC
- USB kit:
  - USB connectivity to PC
- Up to 2000Hz sampling rate supported
- Temperature measurements supported
- Service Mode and Utility Mode access
  - Full gyro module information
  - Full gyro module configuration capability
  - Detailed gyro module diagnostics
  - Help section
- Measure panel
  - Data presentations and save data to file capability
  - Custom scale and zoom functions
  - CRC check
- Logging panel
  - Support for any measurement duration, only limited by hard drive, available memory and processor capacity of PC
  - Various stop criteria for measurements available ('Manually', 'No. of samples' or 'Time elapsed')
- Measurements of up to 4 gyro modules simultaneously supported (requires additional cable)



STIM210/STIM277H EVK PCIe



STIM210/STIM277H EVK USB

### 1.1 General description

The evaluation kits provide measurement and configuration access to STIM210/STIM277H gyro modules. Configuration, graphical result presentation and saving data to file functions are supported. The single voltage supply required for the gyro module operation is provided from an USB port.

#### USB-kit – important notice!

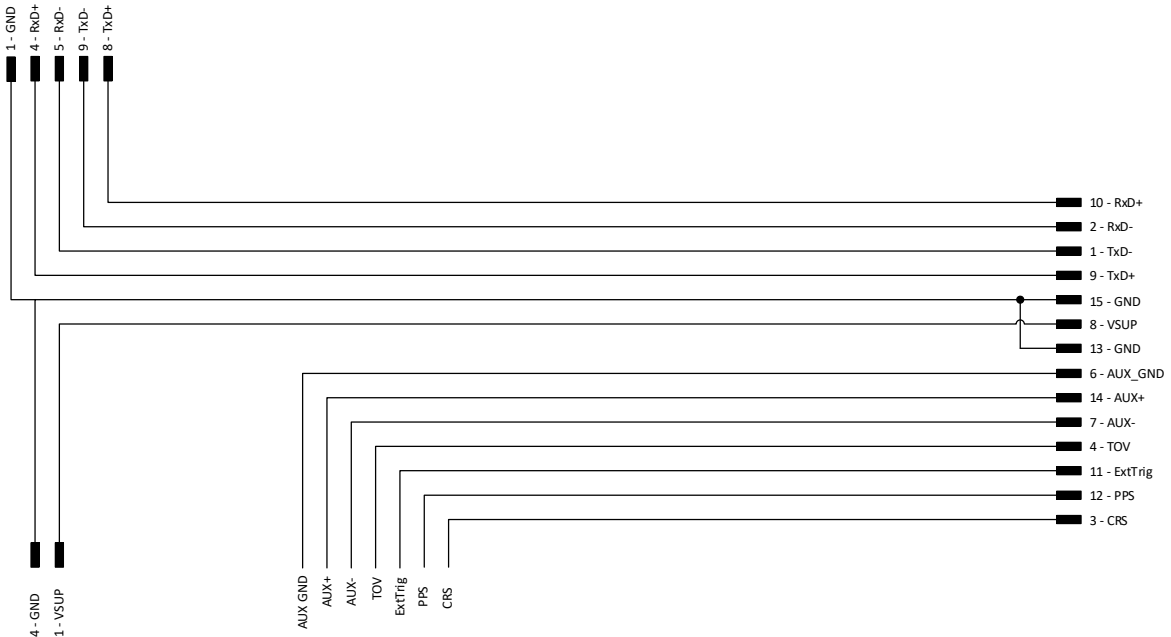
The USB kit supports certain distinct bit rates only. The following bit rates have been tested and verified:

Approved bit rates w/USB kit
3 000 000 bps
2 000 000 bps
1 500 000bps
1 411 765 bps
Most settings below 1 300 000 bps

Table 2 Valid bit rates

### 1.1.1 Wiring diagrams

#### D-SUB



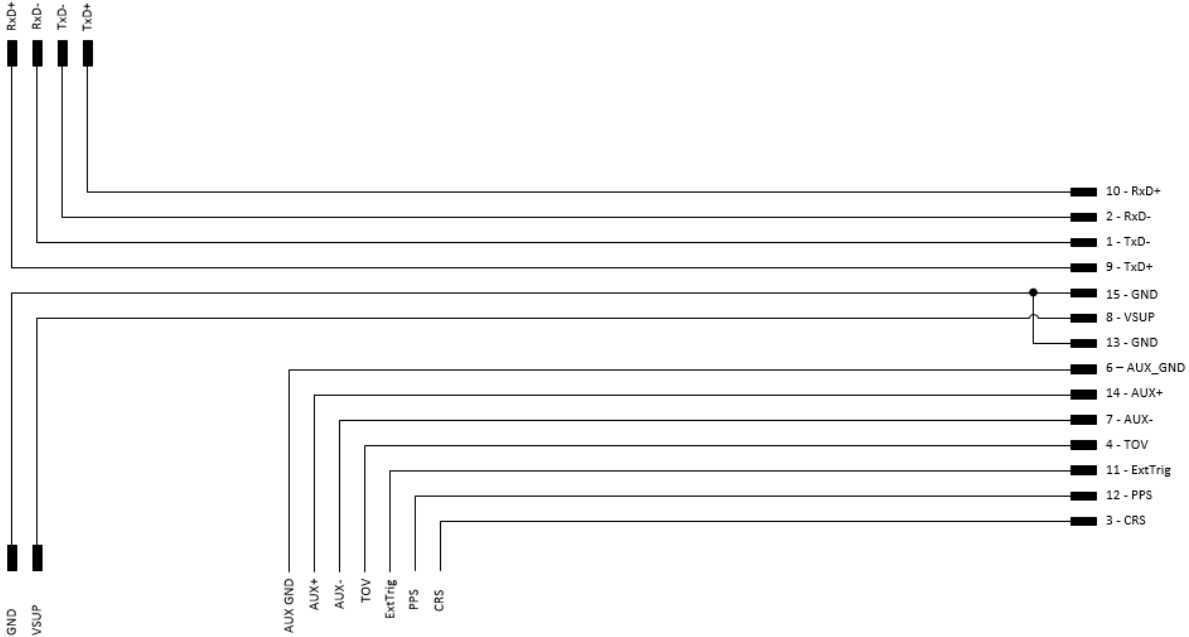
Micro-D

#### P-USB

#### Break-out

Figure 1 Wiring diagram, PCIe kit

#### C-USB



Micro-D

#### P-USB

#### Break-out

Figure 1: Wiring diagram, USB kit

## 1.2 Configurable and readable parameters

Configurable parameters:

- Output format (angular rate, incremented angle etc.)
- Datagram format
- Sampling rate
- Bandwidth/ Low pass filter frequency
- RS422 transmission bit rate
- Number of stop bits in datagram
- Parity
- Line/ Datagram termination

Readable parameters:

- Part number
- Serial number
- Firmware revision
- Hardware revision
- Gyro module diagnostics

Detailed diagnostic information includes RAM and flash checks, stack handling checks, status of internal voltage supply references, and various parameter reports for each measurement axis are available in SERVICE mode.

**Note:** Time of Validity (TOV) and external trigger functionalities of STIM210/STIM277H are not supported by the EVK PC-software.

## 2 Kit contents

- PCI/PCIe kit:
  - PCI/PCIe to RS422 interface card
  - STIM210/STIM277H communication and power cable
- USB kit:
  - USB to RS422 interface cable with USB power supply connector
- Memory stick with:
  - PC software
  - User manual (this document) for evaluation kit
- Tool for fixing connector of communication and power cable to the gyro module

Note that the evaluation kit does not include a STIM210/STIM277H gyro module. This must be ordered separately.

## 3 System requirements

- Windows XP SP2 (or later), Windows Vista, Windows 7 (32/ 64bit) , Windows 10 (32/ 64bit)
- PCI/PCIe kit:
  - 1 free USB port and 1 free PCIe slot
- USB kit:
  - 2 free USB ports
- Quad core processor recommended (when simultaneously logging data from two gyro modules)

## 4 Getting started

Depending on the version of evaluation kit, preparing your system involves the following steps:

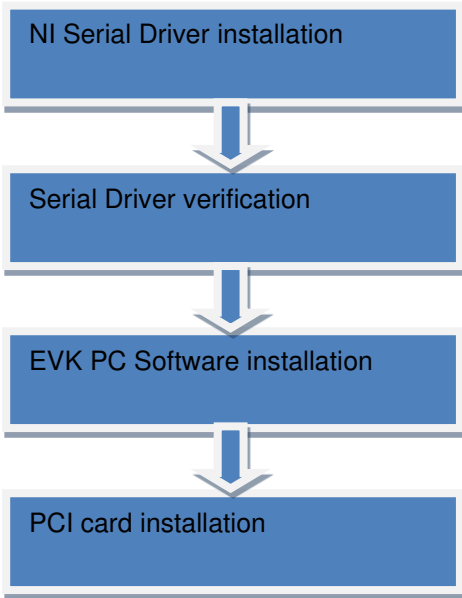


Figure 2: Installation, PCIe

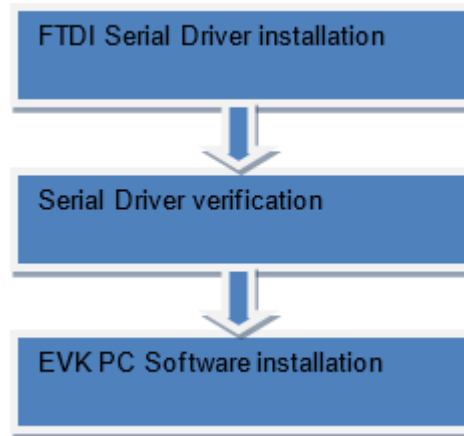


Figure 3: Installation, USB

### 4.1 PCIe installation

#### 4.1.1 Installation of PCIe to RS422 serial driver

Install the serial driver from the memory stick included in the kit. This procedure is self-instructive. Follow the on-screen messages without doing any configuration changes.

Figure 4 and Figure 5 show two of the messages that appear during serial driver installation.

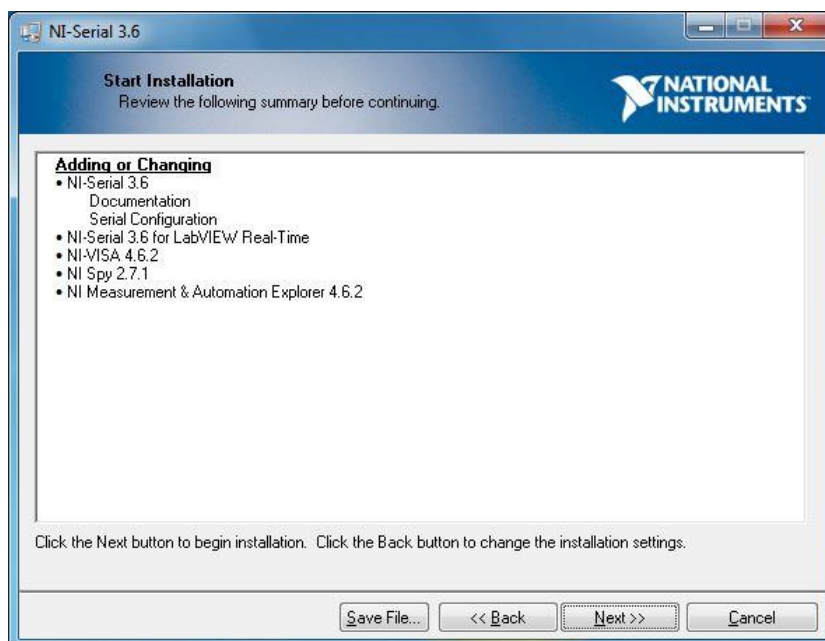


Figure 4: NI serial driver installation summary

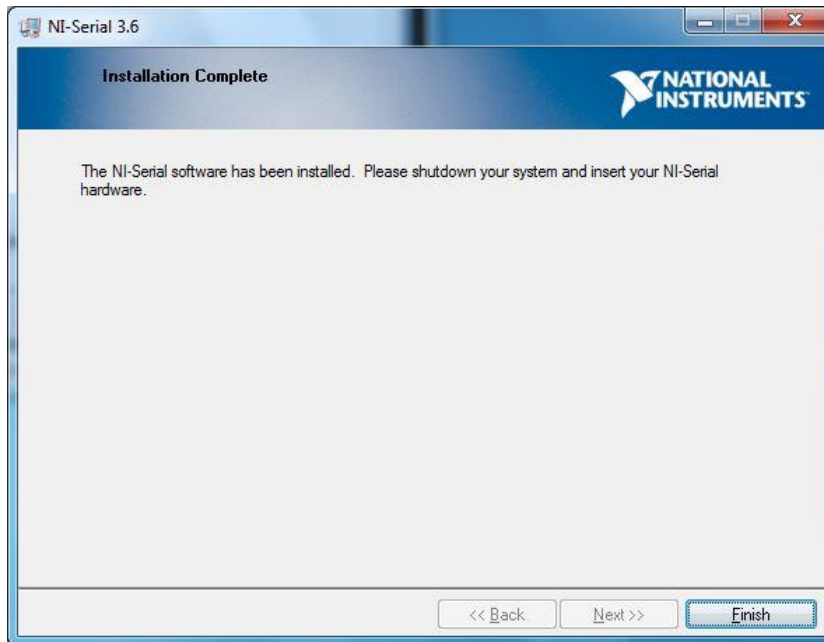
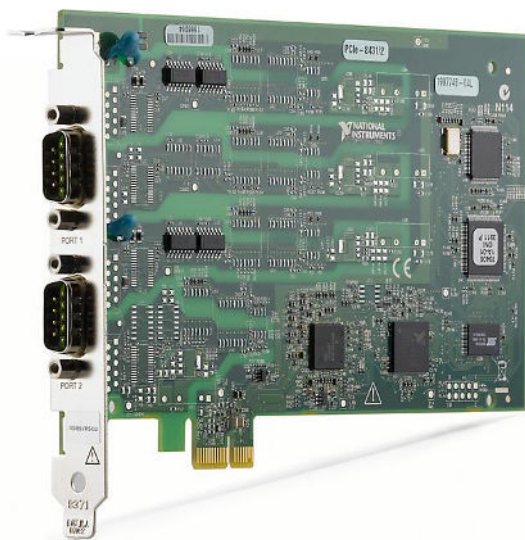


Figure 5: NI serial driver

#### 4.1.2 Installation of PCI / PCIe card



Disconnect power from your computer prior to installation.

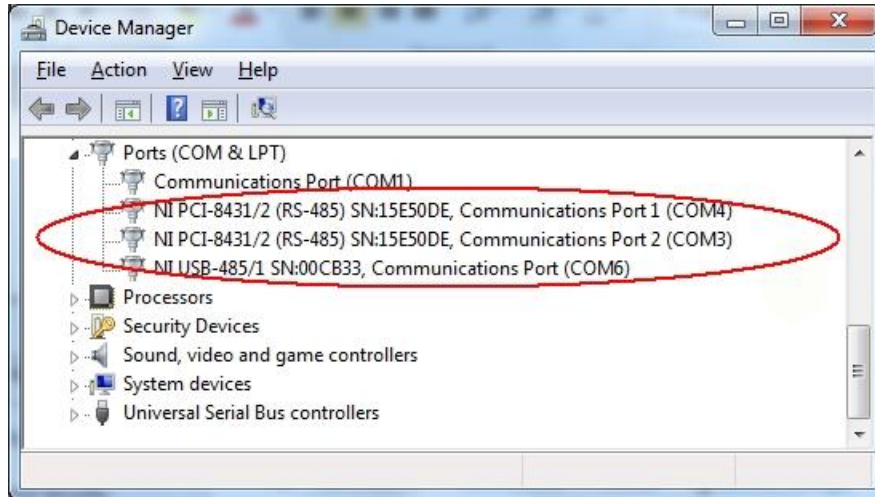
Following your computer manufacturer's directions, insert the card into a free PCI / PCIe slot.

### 4.1.3 Verification of serial driver set-up

Launch **Device Manager**: *Start -> Control Panel -> Hardware and Sound -> Devices and Printers -> Device Manager.*

Verify that the serial driver installation has completed successfully. An example is shown in Figure 6.

Make a note of the assigned COM port value(s) information. This will be needed later for connecting to the STIM210/STIM277H from the PC software.



**Figure 6:** COM port assignments for PCI/PCIe card cable in Windows 7



## 4.2 USB installation

### 4.2.1 Installation of FTDI serial driver

To install the drivers for the FTDI serial driver under Windows, follow the instructions below:

- Connect the USB-RS422 plug to a spare USB port on your PC. *Figure 7* shows how to connect the EVK to a PC
- If there is an available Internet connection, most Windows versions will silently connect to the Windows Update website and install a suitable driver
- In the event that no automatic installation takes place, please refer to the set-up guide from FTDI: <http://www.ftdichip.com/Support/Documents/InstallGuides.htm>

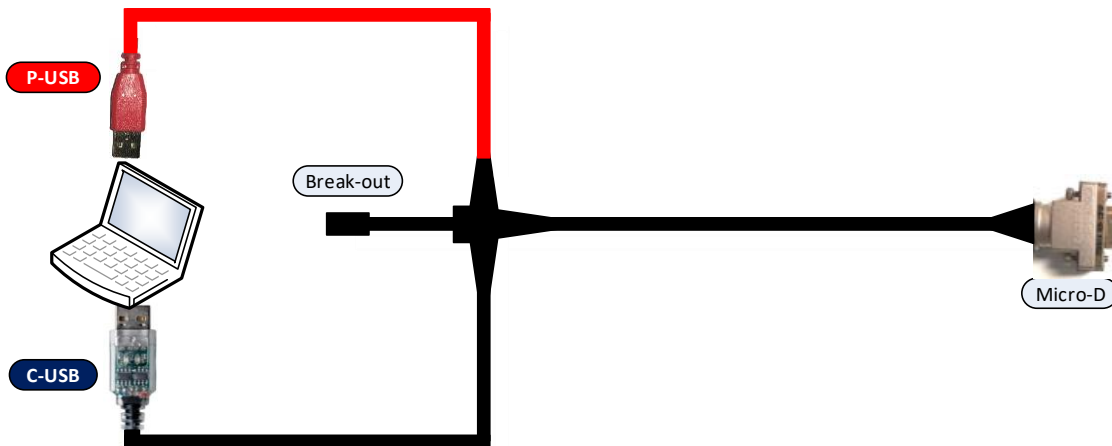


Figure 7: Connecting the EVK to a computer.

### 4.2.2 Verification and configuration of serial driver

Launch *Device Manager*. See *Control Panel -> Hardware and Sound -> Devices and Printers*.

Verify that the driver installation has completed successfully:

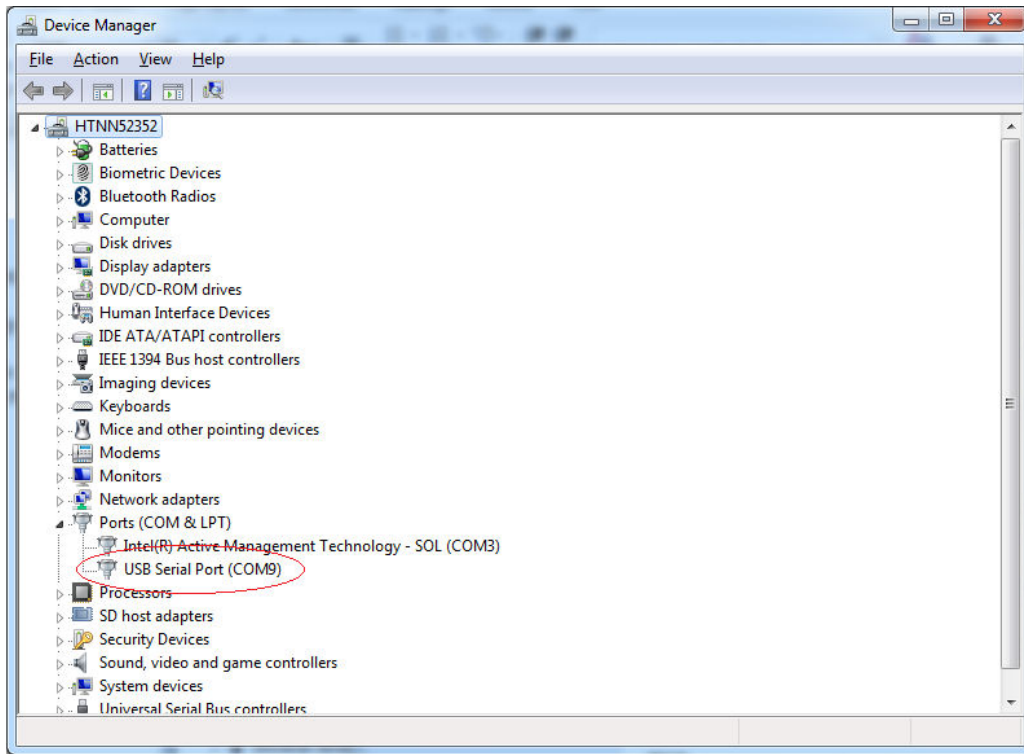
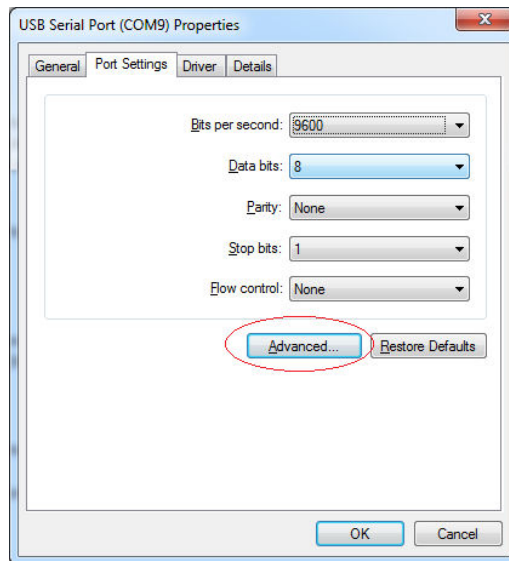


Figure 8: COM port assignments for USB cable in Windows 7.

Make a note of the assigned COM port value(s) information. This will be needed later for connecting to the STIM210/STIM277H from the PC software.

Right-click "USB Serial Port (COM<n>)" and select "Properties"



Select "Advanced" from the "Port Setting" tab.

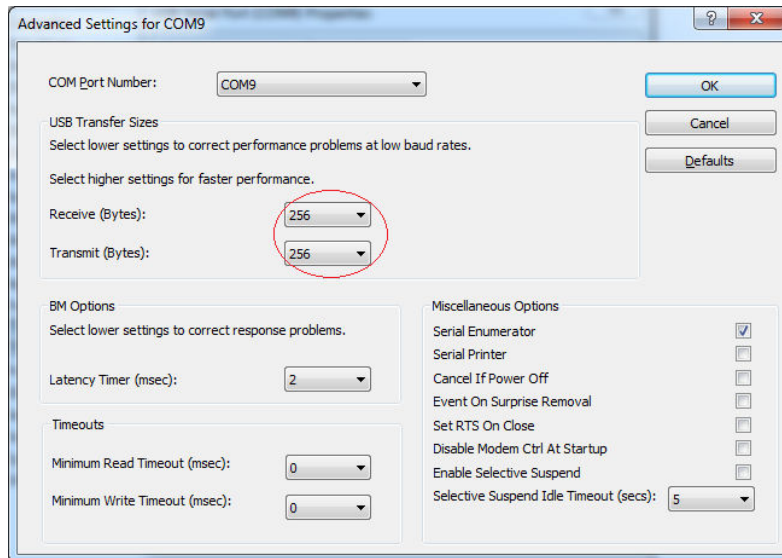


Figure 9: Settings for COM port

Set the "Receive (Bytes)" and Transmit (Bytes) settings to 256. Press OK twice.

The computer may have to be restarted for the changes to take effect.

### 4.3 Installation of PC software

Install the PC software by running "setup.exe" found on the included memory stick or downloaded from the STIM product support web page. Follow the on-screen instructions to complete the installation. The PC software can also be downloaded from the [STIM support site](#). Check this site regularly for updates.

## 5 Connecting the STIM210/STIM277H to your PC

Figure 10 (PCIe) and Figure 11 (USB) shows how to connect the EVK to a PC

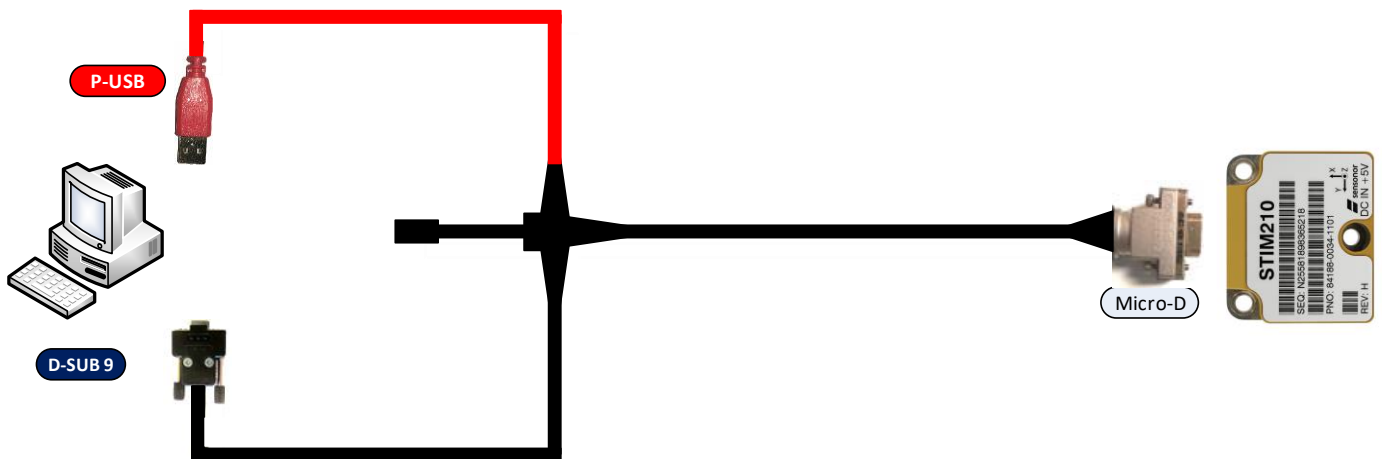


Figure 10: Connecting the STIM210/STIM277H to the computer via PCIe

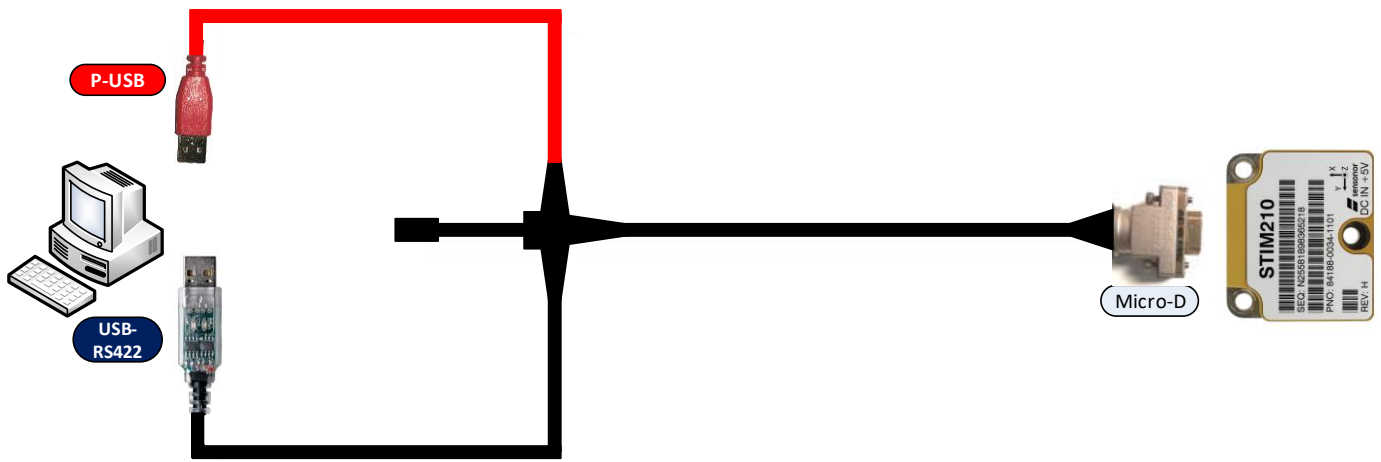


Figure 11: Connecting the STIM210/STIM277H to the computer via USB

## 6 Using PC software

1. Navigate to the 'STIM evaluation tools' folder from Windows start menu. Click on the shortcut named "STIM210 STIM277H EVK" to start the PC software. For full functionality, the computer user should have Local Administrator rights.

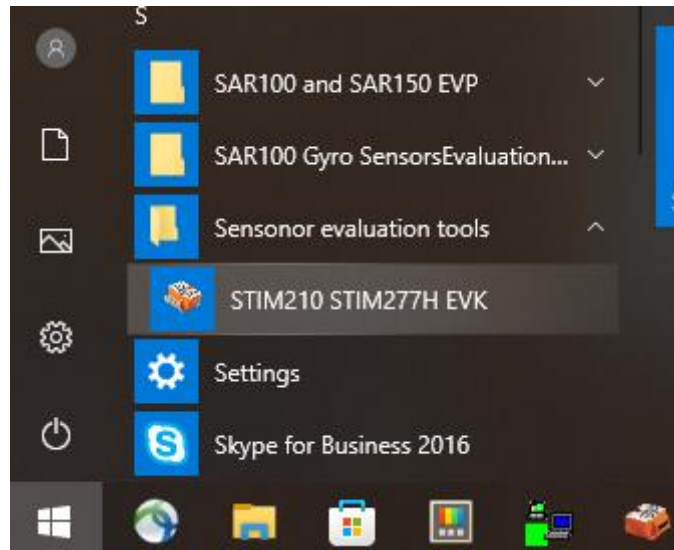


Figure 12: Starting PC software from Windows 10 start menu

2. A pop-up window will ask for a parameter (.INI) file. Select the INI-file (available in the installation folder by default) and press "Load"

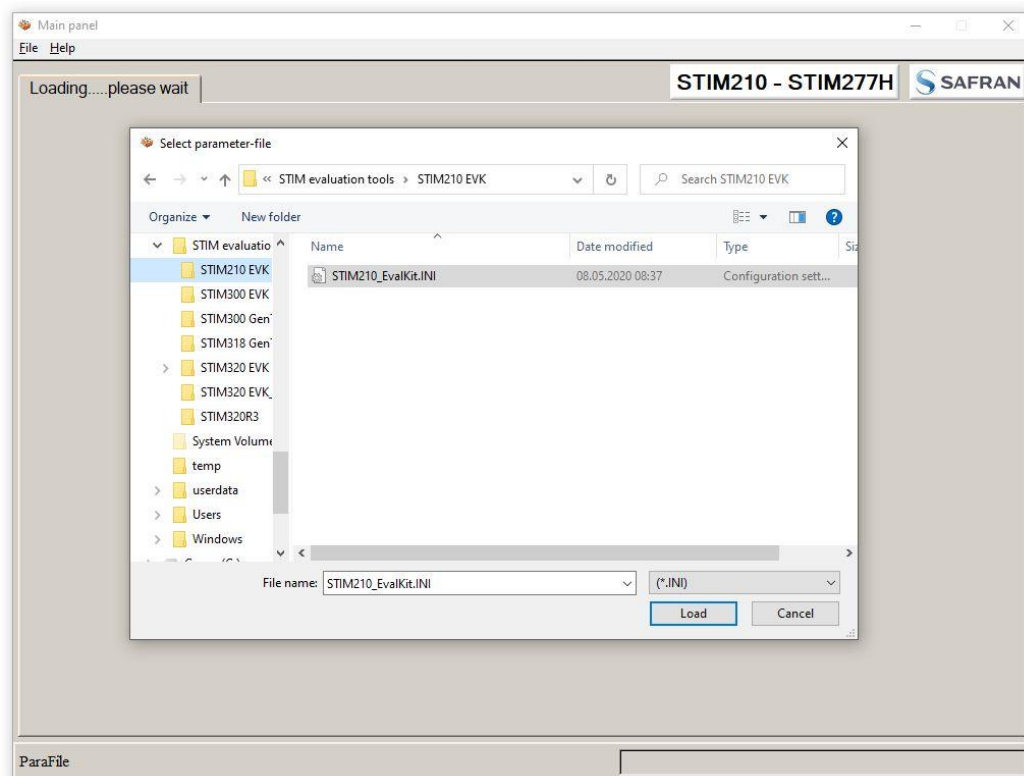


Figure 13: INI-file selection

3. A pop-up window containing the End User License Agreement appears. Click the "Accept" button to accept the agreement and enable the EVK software to have full functionality.

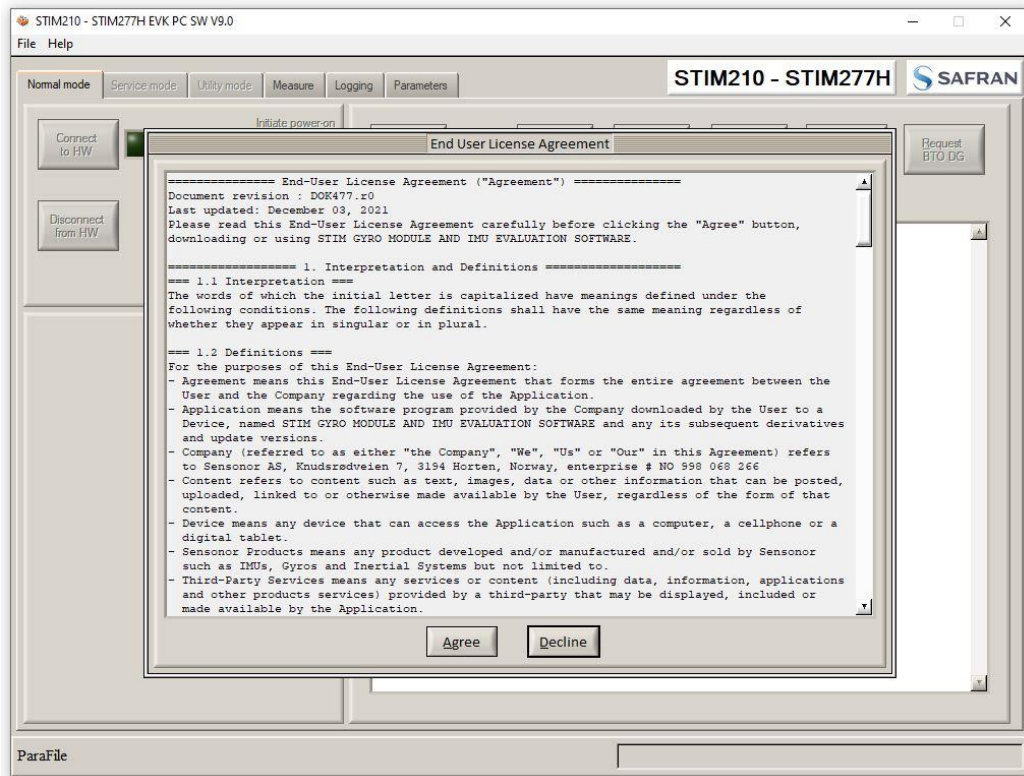


Figure 14: EULA confirmation window

4. A pop-up box for software registration appears. Fill in the open fields and press "Submit". The default email client opens. Press "Send" in order to complete this step. This step will only have to be completed once.

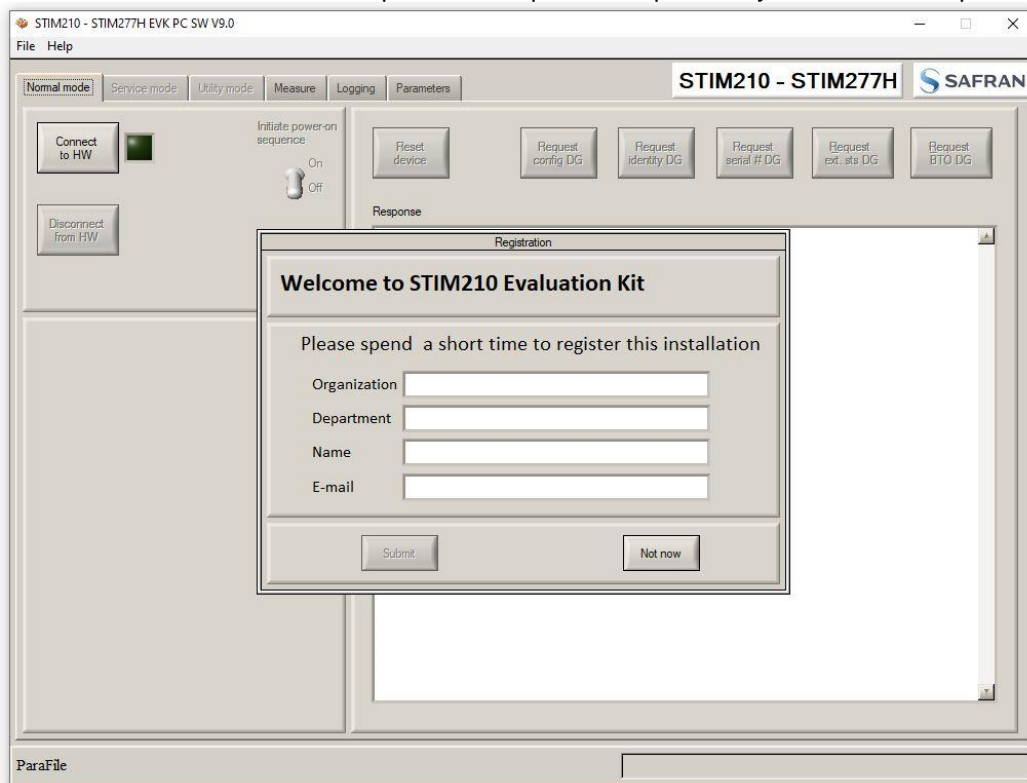


Figure 15: Welcome message and software registration

5. The Normal mode panel is shown

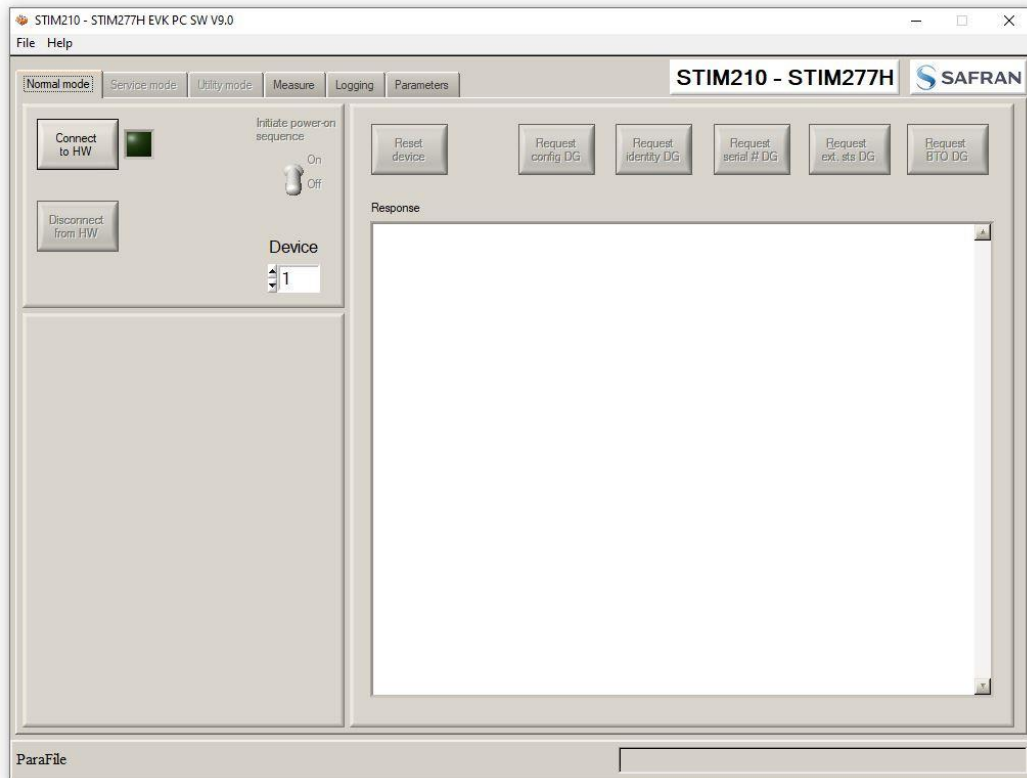


Figure 16: Normal mode panel after selecting INI-file

6. Verify the correct COM port settings in the Parameters view. If needed port # setting needs to be changed, do this by double clicking on the value and enter correct value. The default password for editing is 'stim'

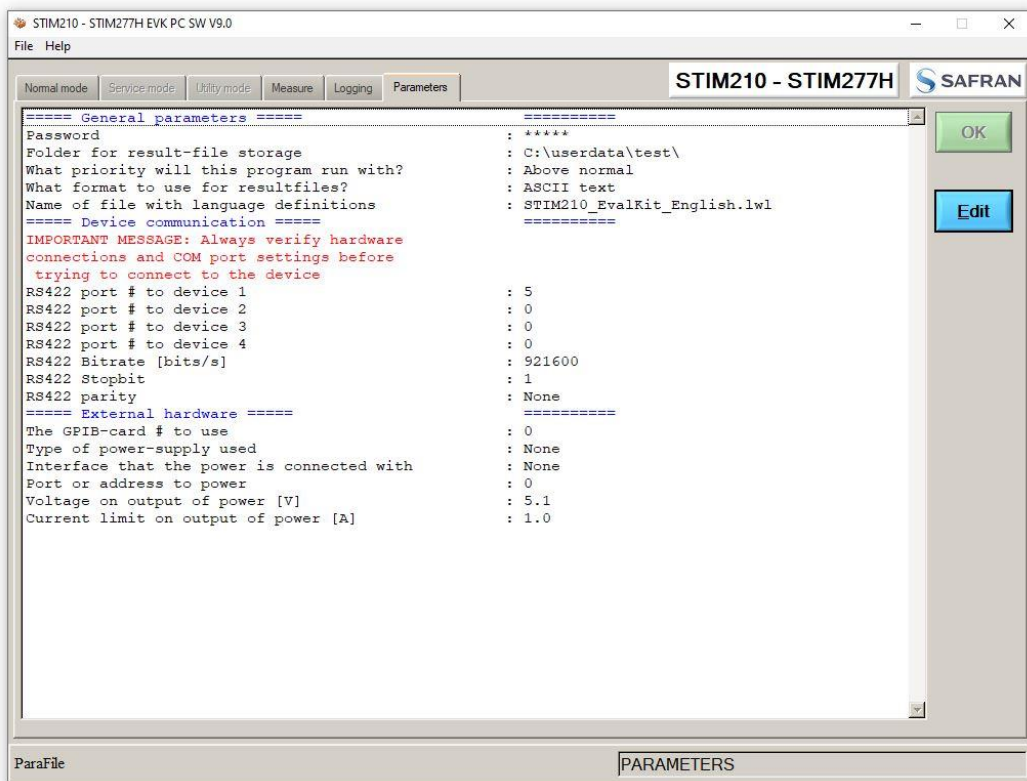


Figure 17: Edit the INI-file in order to verify correct COM port settings

7. Go back to Normal mode panel. Connect to and open COM port by pressing the 'Connect to HW' button. A green LED light indicates that the COM port is active



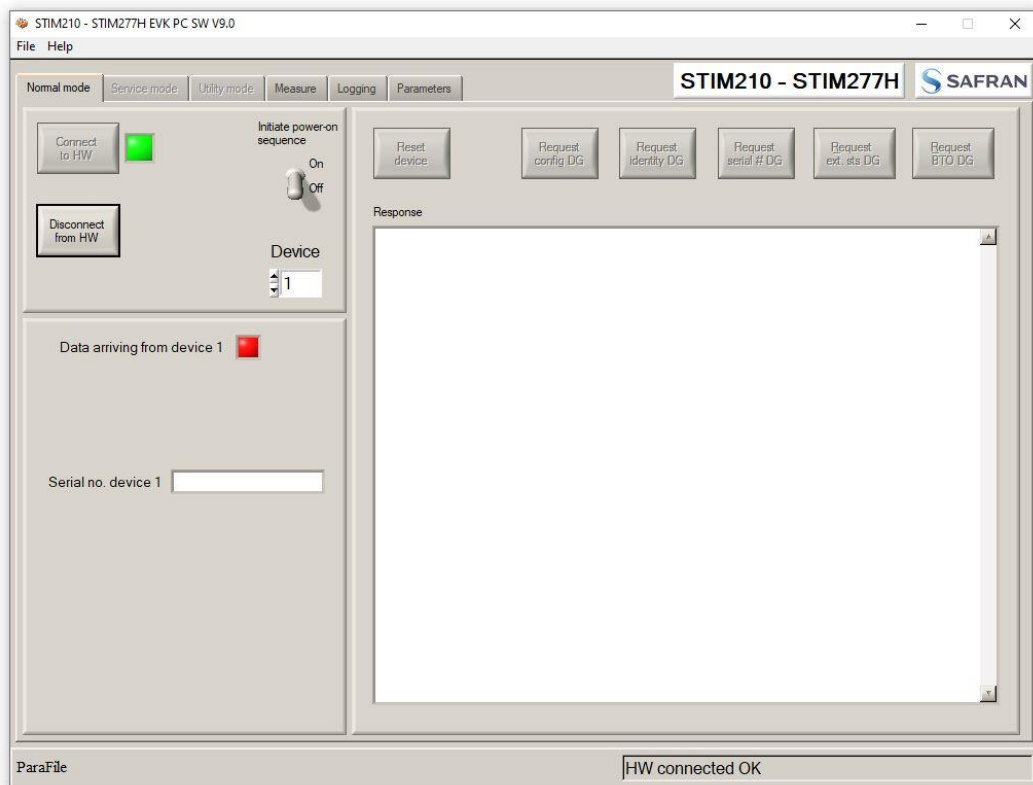


Figure 18: Normal mode panel after hardware connection

- Switch the 'Initiate power-on sequence' control switch position to 'On' position. Do not insert the power supply cable at this point. The pop-up message asking for confirmation of bitrate appears. Press OK.

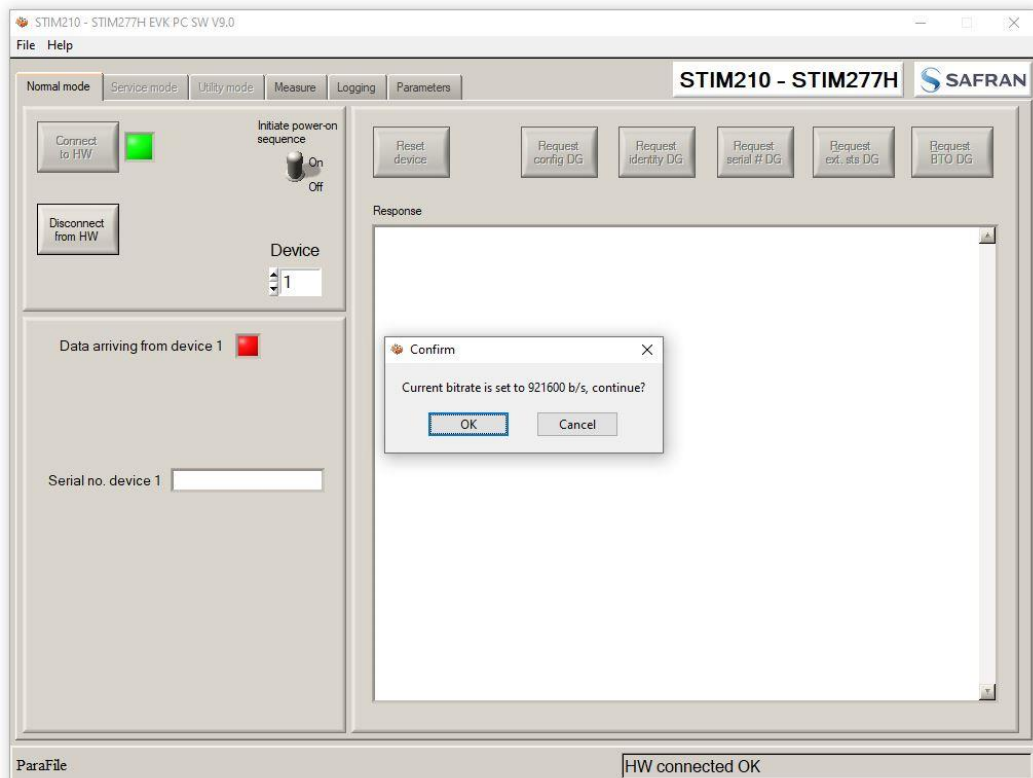
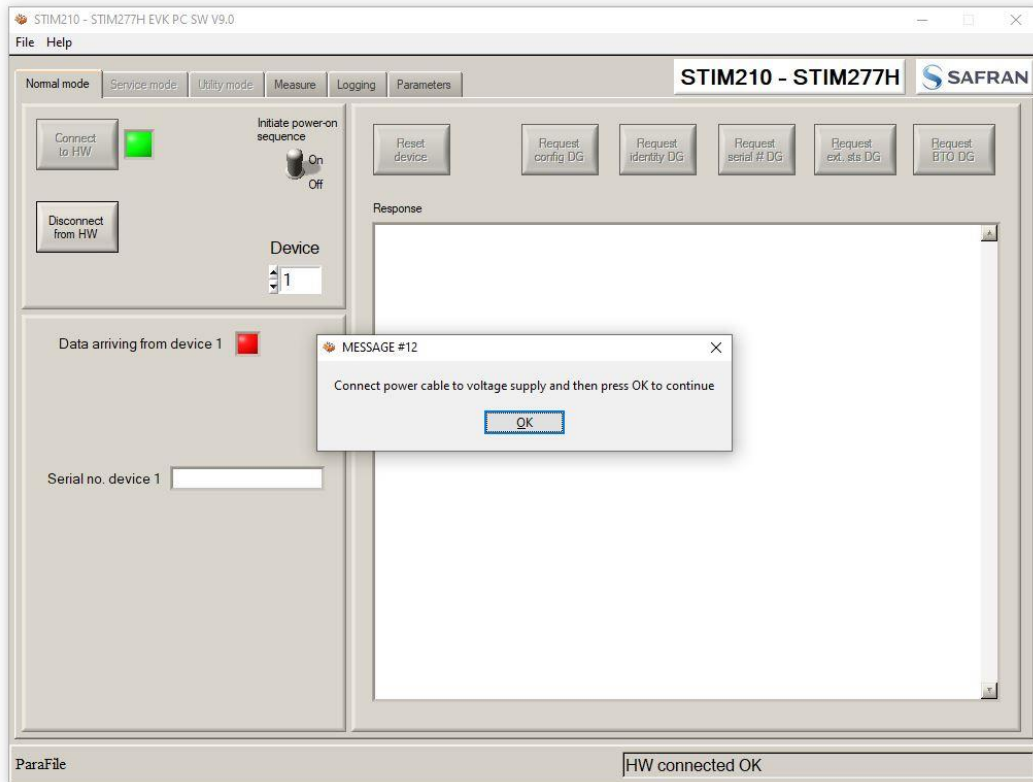


Figure 19: Confirm bitrate

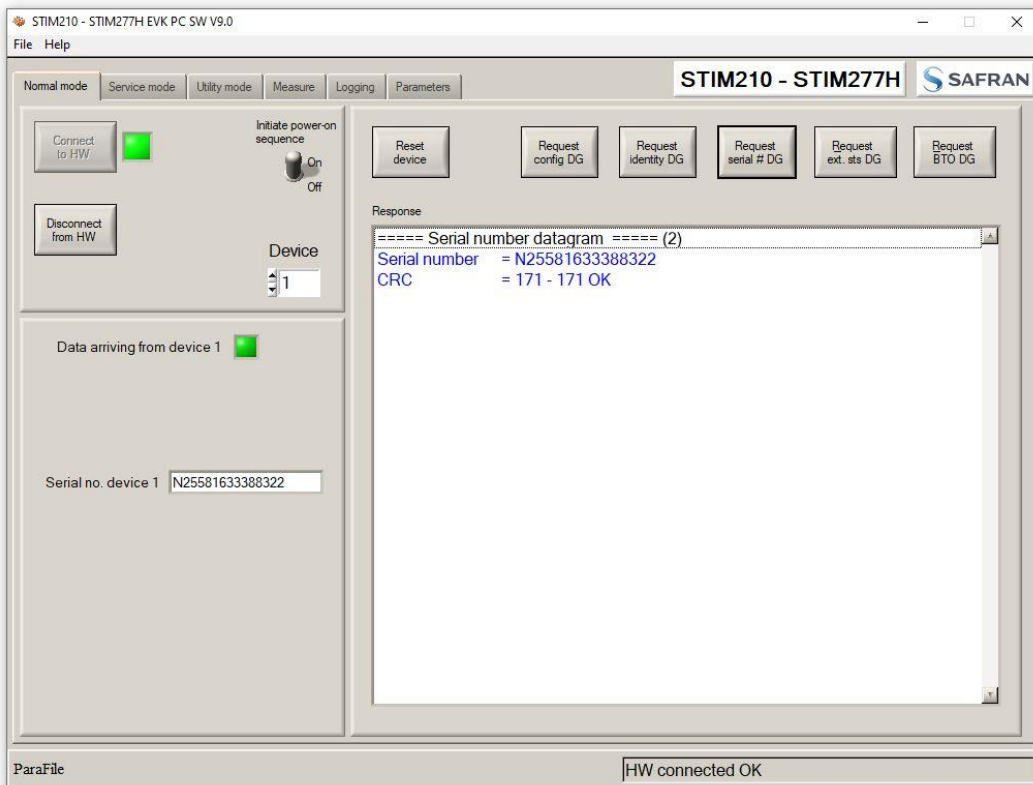
- A pop-up message telling "Connect power cable to voltage supply and then press OK to continue" appears. First insert the red USB connector into a free USB port of the PC/ laptop and then confirm the supply voltage is applied by pressing 'OK'





**Figure 20: Confirm power supply is switched on**

10. A green LED (Data arriving from device n) indicates that data is received from the gyro module(s). Verify the communication to module by clicking on the 'Request serial# DG' button. An example of such a result is shown in Figure 21. The system is now ready for use



**Figure 21: Example of 'Request serial# DG' response**

## 7 Introduction to PC software

### 7.1 Panels overview

In addition to the Normal mode and Parameters panel, other panels are also available:

#### 7.1.1 Service mode panel

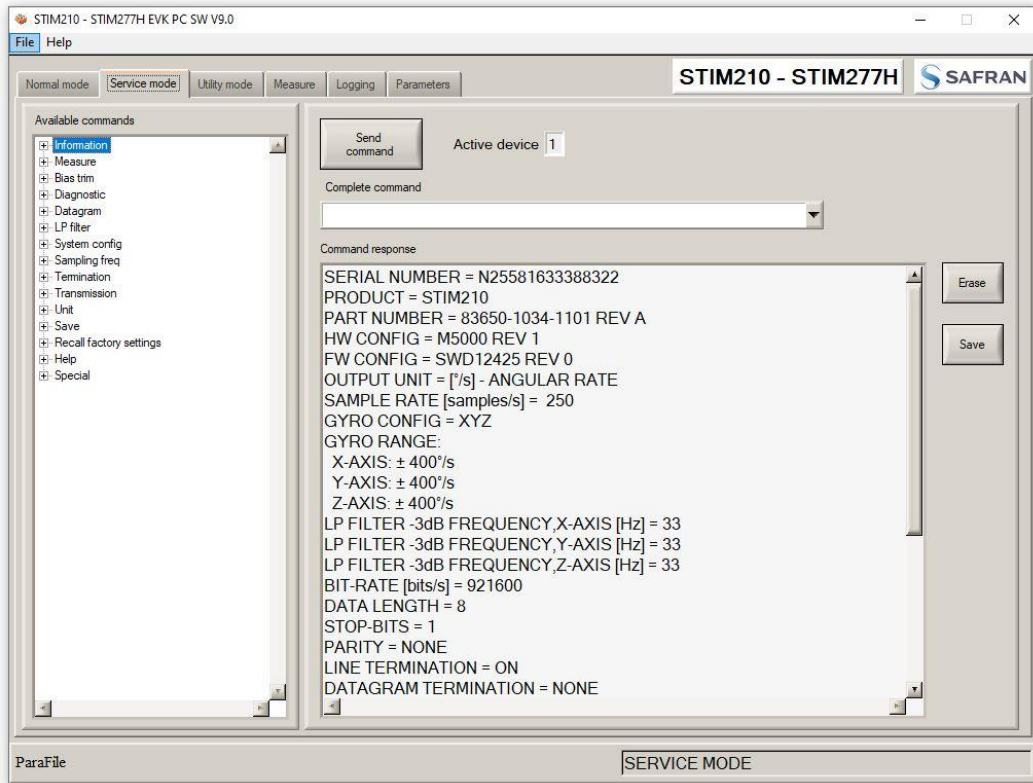


Figure 22: Service mode panel

#### 7.1.2 Utility mode panel

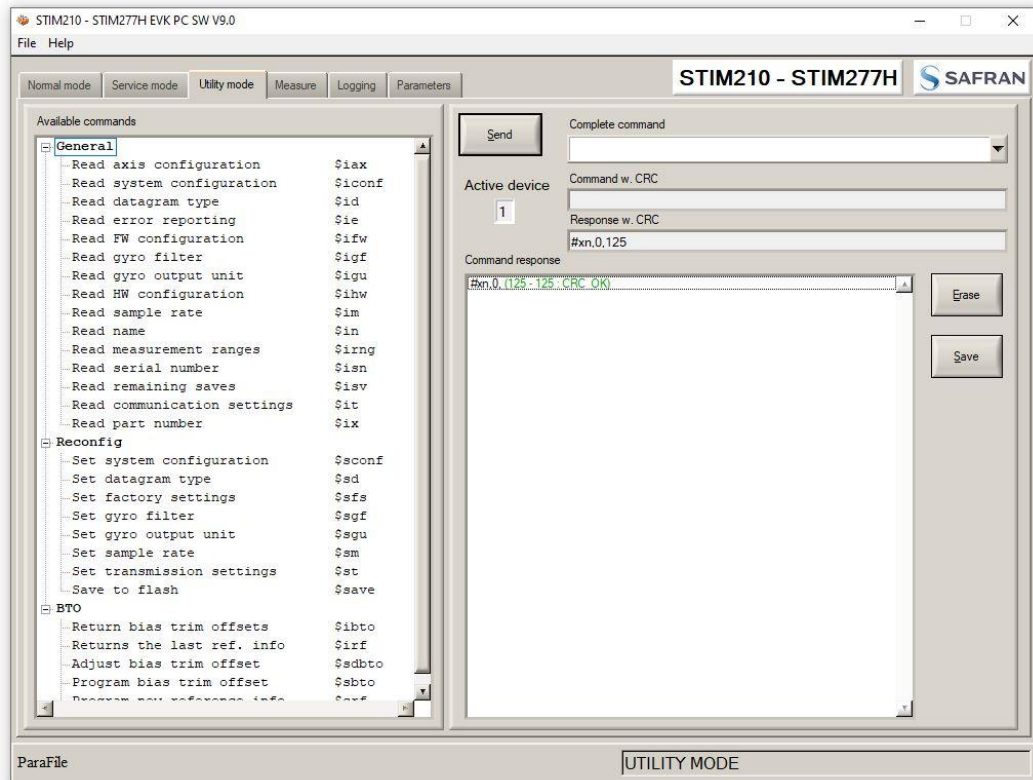


Figure 23: Utility mode panel

### 7.1.3 Measure panel

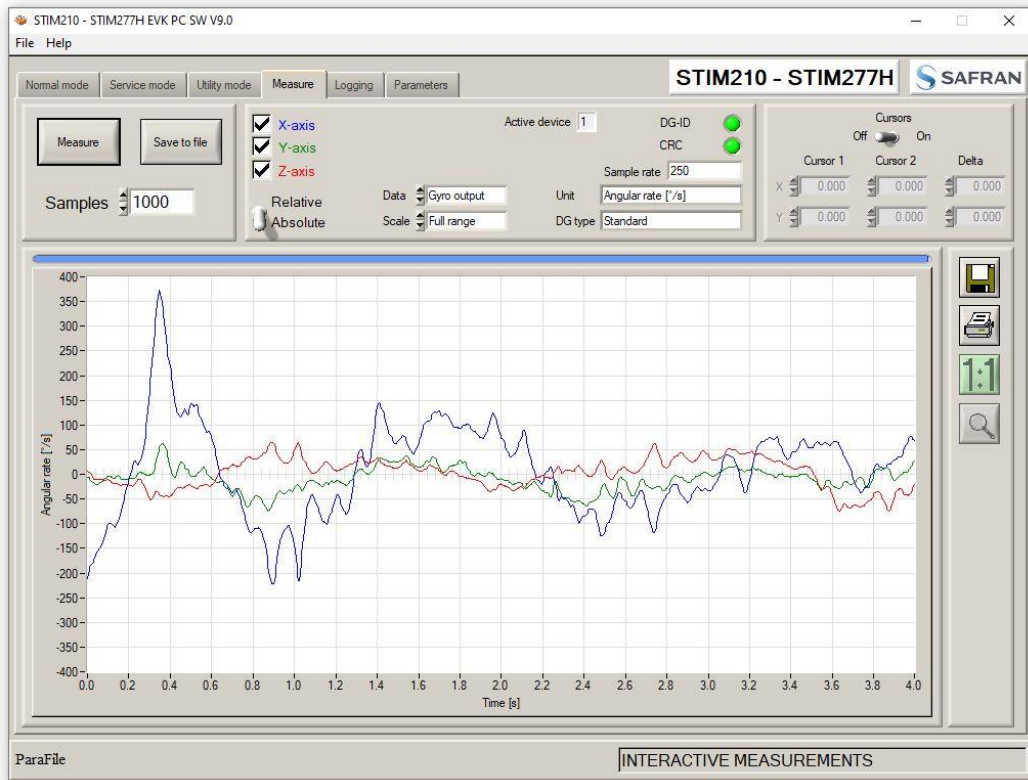


Figure 24: Measure panel

### 7.1.4 Logging panel

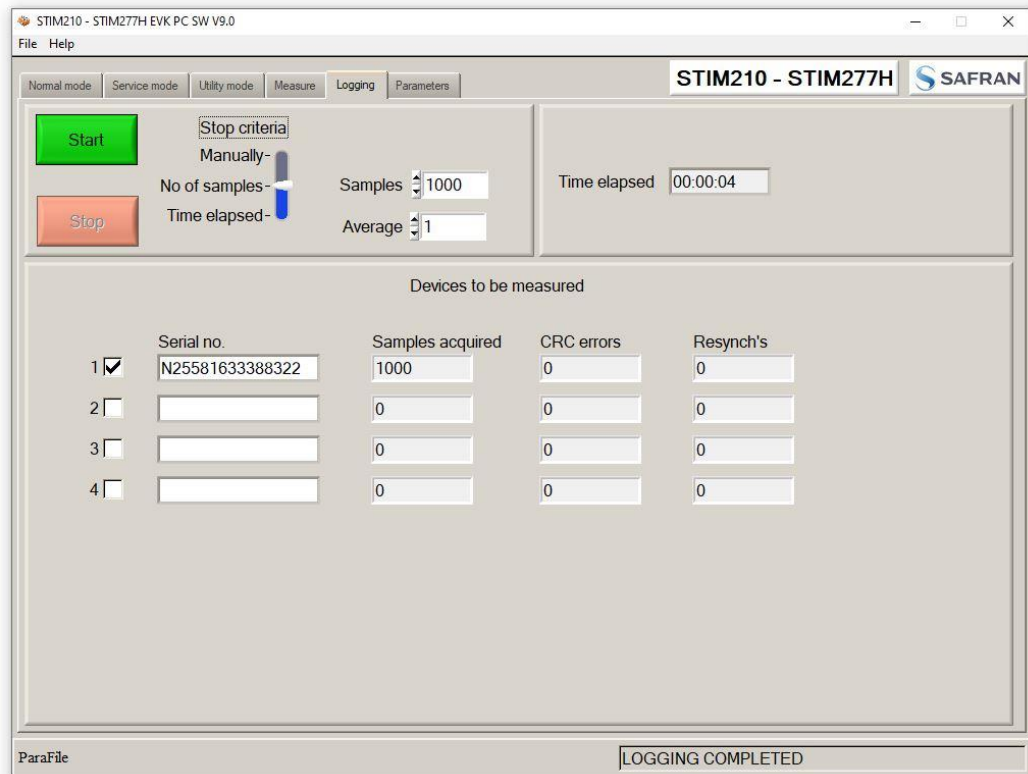


Figure 25: Logging panel (for saving data to file)

## 7.2 Main panel menu

Menu	Description
'File' → 'New parameter file'	Creates a new INI-file with default settings. Note that the new INI-file must be edited to match the hardware and gyro module configuration settings.
'File' → 'Open parameter file'	For loading an existing INI-file
'File' → 'Save parameter file as'	To save current parameter settings with a new file name
'File' → 'Print parameters'	For printing the current 'Parameters' content on the default printer
'File' → 'Edit parameters'	Edit the 'Parameters' content
'File' → 'Exit'	Exit program
'Help' → 'Find bit-rate'	Software will try to identify what bit rate is correct for the connected STIM device
'Help' → 'License agreement'	Displays the End User License Agreement with buttons for Agree or Decline
'Help' → 'Check for updates'	Opens the support site in a web browser. New and updated Drivers, PC software and user manuals can be downloaded
'Help' → 'About'	Information about the program (Program name, publisher and software revision number)

Table 3: Menu contents

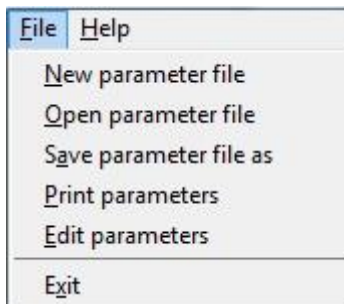


Figure 26: File Menu

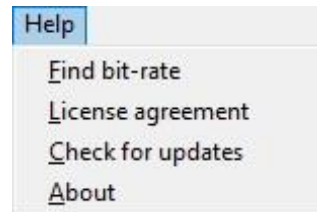


Figure 27: Help menu

## 7.3 Normal mode panel

Panel content	Functionality and description
Connect to HW	Connects to interface hardware. Opens COM port according to settings specified in active parameter file
LED	Indicator for hardware connection. A GREEN light indicates the COM port is opened
Disconnect from HW	Disconnects from interface hardware. Closes the COM port
Initiate power-on sequence switch	Toggles supply voltage if configured with an external power supply. Controls certain functions of the PC software
Device box	Device number (and corresponding COM port) according to active parameter file. Selects which gyro module is activated for datagram requests in Normal mode, Service mode operations and measurements in Measure panel. Does not apply for Logging panel
Reset device button	Sends command ('R') to resets the gyro module
Request config DG button	Sends command ('C') to receive configuration datagram
Request identity DG button	Sends command ('N') to receive part number datagram
Request serial# DG button	Sends command ('I') to receive serial number datagram
Request Ext status button	Sends command ('E') to receive extended error information datagram
Request BTO DG button	Sends command ('T') to receive extended error information datagram
Response window	Displays response to special datagram requests ('C', 'N' and 'I' datagrams)

Table 4: Normal mode panel descriptions

## 7.4 Service mode panel

Service mode is used for gyro module configuration.

Service mode is entered by clicking on the Service mode tab next to the Normal mode tab after the gyro module has been powered up. Service mode usage, functionalities and descriptions are listed in Table 5. Exit from Service mode to Normal mode by selecting one of the other panel tabs (Normal, Logging, Service or Parameter panel tab).

Note: Changes made for the gyro module in Service mode are only stored permanently in flash memory when the save command ('s') subsequently is sent to the gyro module.

Panel content	Functionality and description
Available commands window	Shows a list of available commands. See product datasheet for details
Complete command window	Contains the complete command to be sent. The command is auto-completed by the software during usage of the listings in the Available commands window. Left click inside the Complete command window brings up a list of previously sent commands. Right click enables manual command entry
Send command button	Sends command to the gyro module
Active device indicator	Indicates active gyro module. Corresponding COM port is specified in the active parameter file
Command response window	Shows the responses to commands from the gyro module. See product datasheet for details
Erase button	Clears the content of the command response window
Save button	Saves the content of the command response window to a text file with a date and time tag

**Table 5:** Service mode panel descriptions

## 7.5 Utility mode panel

Utility mode is used for gyro module configuration and supports the same functionality as the Service mode, however, the protocol is optimized for machine-to-machine communication.

Utility mode is entered by clicking on the Utility mode tab next to the Service mode tab after the gyro module has been powered up. Utility mode usage, functionalities and descriptions are listed in Table 6. Exit from Service mode to Normal mode by selecting one of the other panel tabs (Normal, Logging, Service or Parameter panel tab).

Note: Changes made for the gyro module in Service mode are only stored permanently in flash memory when the save command ('s') subsequently is sent to the gyro module.

Panel content	Functionality and description
Available commands window	Shows a list of available commands. See product datasheet for details
Complete command window	Contains the complete command to be sent. The command is auto-completed by the software during usage of the listings in the Available commands window. Left click inside the Complete command window brings up a list of previously sent commands. Right click enables manual command entry
Send command button	Sends command to the gyro module
Active device indicator	Indicates active gyro module. Corresponding COM port is specified in the active parameter file
Command response window	Lists the responses to commands from the gyro module. See product datasheet for details
Command w. CRC window	Show last sent command with CRC
Response w. CRC window	Shows received response to last command with CRC
Erase button	Clears the content of the Command response window
Save button	Saves the content of the Command response window to a text file with a date and time tag

**Table 6:** Utility mode panel descriptions



## 7.6 Measure panel

Panel content	Functionality and description
Measure button	Starts a measurement series
Samples box	Defines the number of samples to be collected (max 50 MS)
Save to file button	Saves data from a completed measurement series to a result file. The file path defined in the active parameter file is proposed
X-, Y- and Z-axis check boxes	Selects which axis data to present in the graph area (up to 3 axes can be plotted simultaneously)
Relative and absolute toggle switch	When set to 'Absolute', all results are plotted as received. When set to 'Relative' the curves are translated so that the first measurement is shown in the plot as zero
Active device indicator	Indicates active gyro module. Corresponding COM port is specified in the active parameter file
CRC and DG-ID LEDS	Status on all CRC checks and DG-IDs. GREEN = OK, RED = FAIL
Data box	Selects which datagram content to be shown. Several options are available, depending on the active datagram type. Left click inside box to display available selections. The plot updates immediately if a measurement series has been done
Scale box	Enables user to change Y-axis scaling (Full range, User defined, or Auto). Left click inside box to display available selections
Sample rate box	Displays the sample rate used in measurement
Unit box	Displays the output unit for all measurements (Angular Rate, Incremental Angle, etc.)
DG type box	Displays the type of datagram received
Save to disk icon	Saves the plot to a .JPG file
Print icon	Prints a picture of the plot to the default printer
1:1 icon	Resets zoom level to 1:1 (if ZOOM is active. See below)
Zoom icon	Enables a custom zoom of the presented results in the strip chart (graph area) according to placement of the cursors
Cursors (On/Off) switch	Enables usage of cursors (default is Off)
Cursor 1	Shows the location of cursor no 1
Cursor 2	Shows the location of cursor no 2
Delta	Shows the delta between the two cursor locations (X and Y values)
Progress bar	A blue continuous line above plot area shows the measurement series progress
Lower bar on panel	Shows the INI-file in use and the active mode (INTERACTIVE MEASUREMENTS)

Table 7: Measure panel description

### Saved data:

An example of a result file is shown in Figure 28, for a standard datagram measurement series of gyro module # 1. A description of each of the columns of the data log file is found in Table 8.

Time[s]	X[°/s]	Y[°/s]	Z[°/s]	STS	RXCRC	CalcCRC	DG_ID
0.027696	-0.085083	0.063416	-0.179016	128	70	70	144
0.028191	-0.107117	0.117615	-0.142639	128	202	202	144
0.028691	-0.095825	0.188782	-0.105164	128	44	44	144
0.029190	-0.103699	0.194275	-0.051208	128	205	205	144
0.029690	-0.186279	0.168823	-0.007507	128	30	30	144
0.030191	-0.323853	0.132996	-0.028870	128	200	200	144
0.030705	-0.377380	0.026855	-0.097656	128	50	50	144
0.031195	-0.327942	-0.071472	-0.123718	128	140	140	144
0.031695	-0.309814	-0.059631	-0.120972	128	223	223	144
0.032191	-0.302856	0.042847	-0.166870	128	220	220	144
0.032691	-0.286865	0.124573	-0.206482	128	78	78	144
0.033191	-0.263794	0.096802	-0.179993	128	53	53	144
0.033693	-0.188232	0.053101	-0.155334	128	249	249	144

Figure 28: Result file example

DG-type	Col. #	Heading	Comments
Standard	1	Time[s]	Time in seconds (derived from sample rate). First sample is always zero.
	2	GYRO_X	Gyro signal X-axis
	3	GYRO_Y	Gyro signal Y-axis
	4	GYRO_Z	Gyro signal Z-axis
	5	GYRO_STS	Status-byte for gyro
	6	GYRO_TMP_X	Temperature, X-axis gyro
	7	GYRO_TMP_Y	Temperature, Y-axis gyro
	8	GYRO_TMP_Z	Temperature, Z-axis gyro
	9	GYRO_TMP_STS	Gyro temperature status
	10	Counter	Sample counter. See product datasheet for details
	11	Latency	Sample latency. See product datasheet for details
	12	RxCRC	Received CRC
	13	CalCRC	Calculated CRC
	14	DG_ID	Datagram identifier

Table 8: Result file content, standard datagram

## 7.7 Logging panel

Panel content	Functionality and description
Start button	Starts data logging
Stop button	Stops data logging
Stop criteria slide	User can select between “Manually”, “No of samples” and “Time elapsed” for stopping a measurement series
Samples box	Used for defining number of samples when logging a finite number of samples
Average box	Used for specifying how many samples should be averaged before saving the averaged value to file. If values is ‘1’ no averaging is done
Time elapsed	Shows the time elapsed since start of test
Samples acquired	Shows number of samples acquired
CRC_errors	Shows number of CRC errors (normally 0, otherwise the user should consider to reject results data in any analysis)
Resynch's	Increments from 0 to a number if any re-synchronisations are needed in order to re-establish data collections from module

Table 9: Logging panel descriptions

Log to file capability:

- Quad core processor is recommended when measuring on two gyro modules simultaneously
- The size of the log file is only limited by the available space on the storage media in use
- The path for result file storage is defined in the active parameter file
- The program should be run with administrator rights to ensure the creation and storage of the result file

## 7.8 Parameters panel

Panel content	Functionality and description
==== General parameters =====	
Password	Current valid password to be able to edit the parameters list. The default password is "stim"
Folder for result-file storage	Path to storage (e.g. "c:\userdata\test\")
What priority will this program run with	Instructs the program priority for the PC operation system
What format to use for result files	ASCII text by default. Can be changed to 8 byte binary
Name of file with language definitions	Application can be configured with language other than English
==== Device communication ===== <b>IMPORTANT MESSAGE: Always verify hardware connections and COM port settings before trying to connect to the device</b>	
RS422 port # to device 1	Defining which COM port # to assigned to gyro module # 1
RS422 port # to device 2	Defining which COM port # to assigned to gyro module # 2
RS422 Bitrate [bit/s]	RS422 bit rate selection
RS422 Stopbit	1 or 2. Default is "1"
RS422 parity	None, odd or even. Default is "None"
==== External Hardware =====	
The GPIB-card # to use	Interface for external power supply (optional). If card(s) are in use; the first card will be assigned to #0, second to #1, etc. Default value is "0"
Type of power supply used	External power supply (optional). Default "None" (not in use). Agilent E3631A, E3633A and E3644A are supported
Interface that the power is connected with	Interface type for external power supply (optional). Default "None" (not in use). RS232 (for Agilent E3631A only) and GPIB supported
Port or address to power	GPIB port for external power supply (optional). Default "0" (not in use). Selectable up to 31
Voltage on output of power supply [V]	Voltage output on external power supply (optional). Default value is 5.1 V. Value should be within the supply voltage range of the gyro module. See product datasheet for details
Current limit on output of power [A]	Current limitation on external power supply (optional). Default value is 1.0 A

Table 10: Parameters panel descriptions

### 7.8.1 Binary file description

The binary file's first 2101 bytes is the header. The header is defined as:

- The first byte is stating the number of 'columns' in the file (n columns)
- The next 100 bytes is defining the data-type for each 'column' (only the first n values are set). Currently these numbers are all 0x05, meaning 8-byte floating point (double)
- The remaining header bytes are 100 20-byte strings with the header name for each 'column' (only the first n values are set)

After the header follows the data measurement result values, stored as 8-byte floating point values (double) in groups of n results.



## 7.9 Messages from the program

Messages that the program can display are listed in Table 11

#	Message	Description
1	This application is already running! Stop loading of 2. instance...	The program is already started, a second instance will not be allowed
2	Wrong password entered!	The password entered does not match the required one for this INI-file
3	No response to message was received	Did not receive the expected response to the sent service-mode command
4	There is no measurement data available for storage	To be able to save measurement data, there must be data available
5	Unable to open the selected file	Saving of measurement data failed, unable to open or create the selected file
6	Unable to allocate the required memory	Failed to acquire the requested number of datagrams from the gyro module due to error when trying to allocate memory for temporary storage
7	No product identification datagram received	Even after retries the, expected datagram is not received as response to command sent
8	No configuration datagram received	Even after retries the, expected datagram is not received as response to command sent
9	No serial number datagram received	Even after retries the, expected datagram is not received as response to command sent
10	No datagrams received	Failed to acquire the requested number of datagrams from the gyro module, no recognizable datagrams received
11	Turn off device supply voltage	Instruction to user when running without controlled power-supply
12	Turn on device supply voltage	Instruction to user when running without controlled power-supply
13	Error encountered when trying to control voltage	Power on sequence failed. Note that for the software to be able to read the special datagrams on power-on, the power supply must be applied exactly when instructed as described in previous chapters
14	Unexpected DG-ID received !	When waiting for datagrams, unexpected datagrams are received
15	Unable to read config DG to determine output unit !	Unable to read configuration datagram to determine the output unit
16	Unable to synch with DG-stream !	Failed to acquire the requested number of datagrams from the gyro module, unable to get in synch with datagram stream
17	Error encountered when trying to print, check configuration !	Failed to print the graph, check that a printer is configured
18	Unable to create result-folder specified by parameter !	The specified pathname cannot be created, either due to access-rights or errors in the path specification
19	Unable to enter service mode !	Unable to enter service-mode, does not receive expected response to command.
20	Unable to save parameters to active INI-file !	Error encountered when trying to save parameters onto INI-file
21	Edit-mode of parameters is active, unable to exit !	The edit-mode of parameters are active, unable to exit the program until edit mode is ended
22	You are about to change the RS422 bit rate. If are you using the USB kit hardware, please notice that you will not be able to communicate with the device if you change to something else than supported 460800 b/s! For the PCI card there are no worries - it supports all available bit rates	A warning to the user about limitations for certain RS422 hardware
23	Unable to create/save to selected file, check access rights to folder	Unable to open or create the specified file in the selected folder, try another filename and/or location. The reason may be lacking access rights to the folder, or illegal filename format
24	Unsupported datagram received	When trying to read datagrams into memory a datagram type not supported by the EVK is detected

**Table 11:** Possible messages given by the program

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