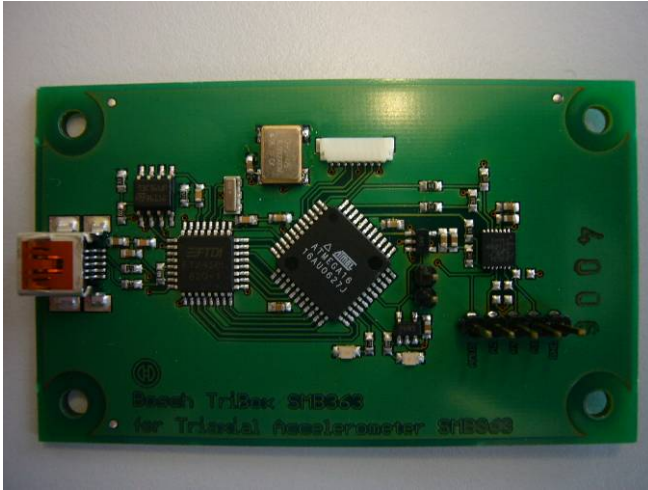# Demonstration Systems
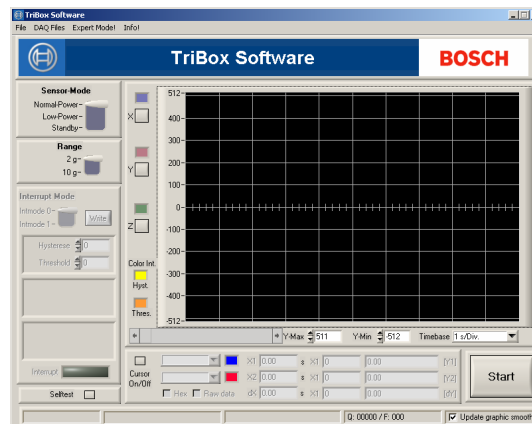
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Scope of Demonstration Boards

➜ Platform for basic sensor operation

➜ Functional demonstration of sensor

➜ Data logging of measured values

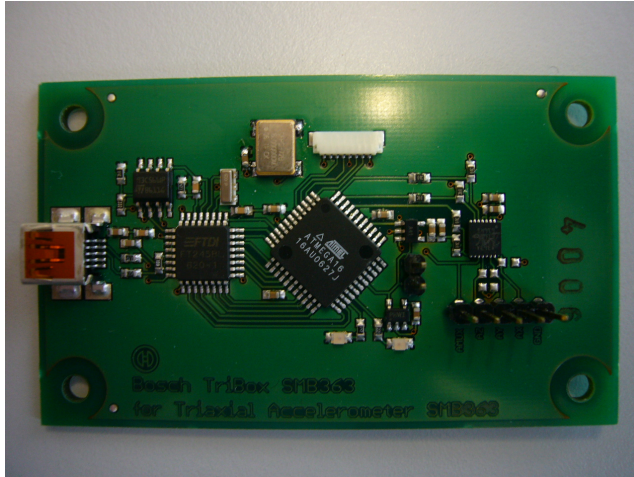➜ PC Software TriBox and Sensor Desktop allows easy access to basic sensor functionality
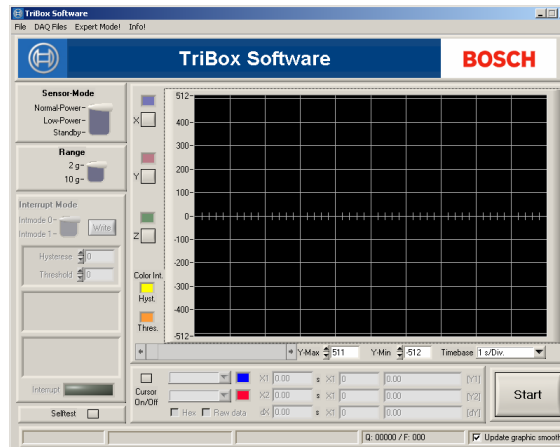
Bosch Sensortec

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Tribox363

→ Demonstrator for SMB363
→ Status: available
→ USB connectivity
→ PC Suite: Tribox
→ Features:
- Analogue voltage output for each axis and multiplexer pin
- Measure of current consumption
- Read-out and display acceleration values
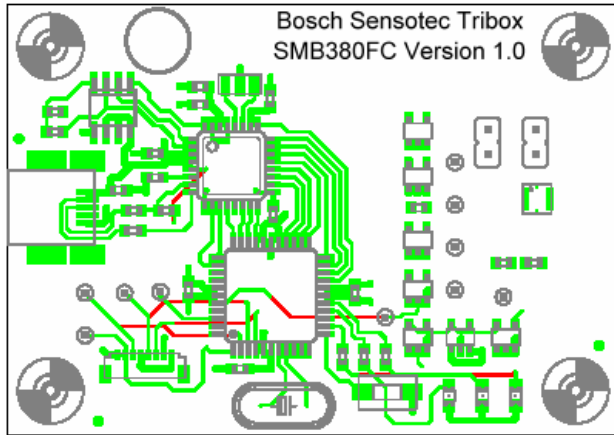- Data logging on PC
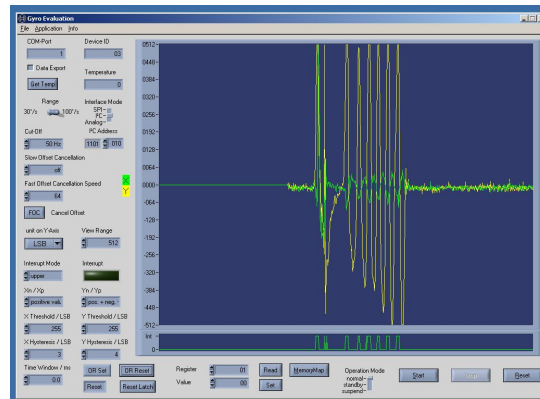
Bosch Sensortec

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Tribox365

→ Demonstrator for SMB365

→ Status: available

→ USB connectivity

→ PC Suite: Tribox

→ Features:

- Read-out and display acceleration values
- Data logging on PC
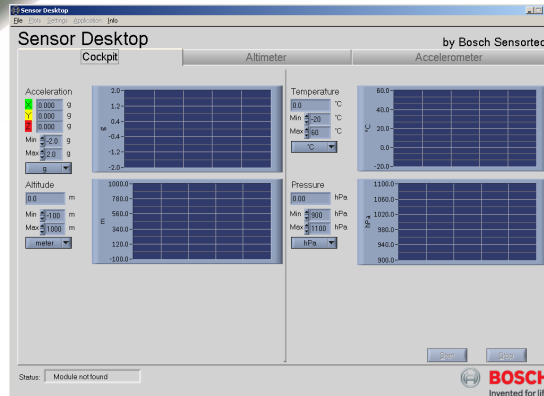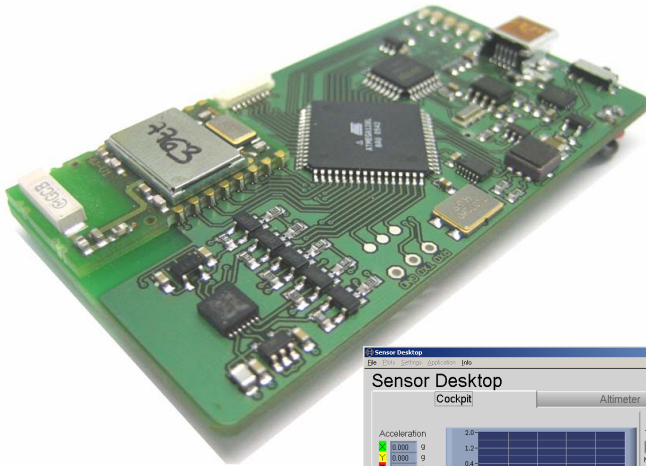- Configure and display of on-chip interrupt function

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Tribox380

Bosch Sensotec Tribox
SMB380FC Version 1.0

➔ Demonstrator for SMB380
➔ Status: available in 02/07
➔ USB connectivity
➔ PC Suite: Evaluation Desktop
➔ Features:
- Read-out and display acceleration values
- Data logging
- Configure and display of on-chip interrupt function
- Self Wake Up function
- Measure current consumption
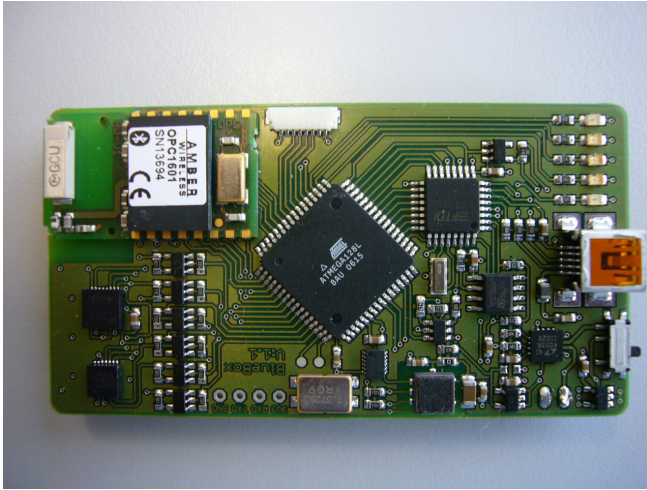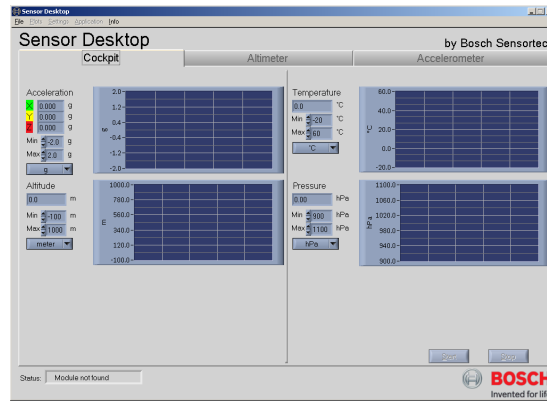- Firmware upgrade via USB

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Bluebox V1.01

→ Demonstrator for SMB365 and SMD500

→ Status: available

→ USB and Bluetooth connectivity

→ PC Suite: Sensor Desktop

→ Features:
  - SMB365
    - Read-out and display acceleration values
    - Data logging
    - Configure and display of on-chip interrupt function
  - SMD500
    - Read-out and display pressure and temperature
    - Convert into altitude information
    - Data logging

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Bluebox V1.1

➔ Demonstrator for SMB365, SMD500 and SMG300
➔ Status: available
➔ USB and Bluetooth connectivity
➔ PC Suite: Sensor Desktop
➔ Features:
- SMB365
  - Read-out and display acceleration values
  - Data logging
  - Configure and display of on-chip interrupt function
- SMD500
  - Read-out and display pressure and temperature
  - Convert into altitude information
  - Data logging
- SMG300
  - Read-out and display yaw-rate
  - Data logging

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Evaluation Systems

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Scope of Evaluation Board

➜ Platform for detailed sensor evaluation

➜ Development purposes

➜ Extensive measurements on power supply and all sensor interfaces

➜ Interfacing to existing customer platforms

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Evaluation Board Features

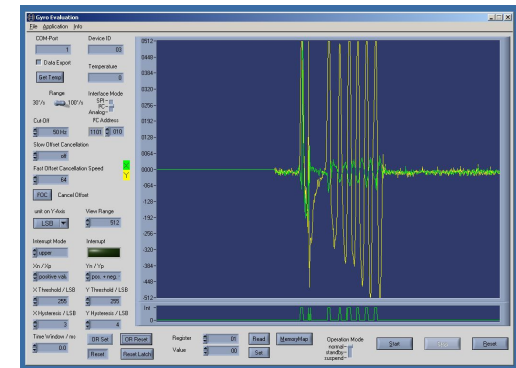Access to all pins

Engineering Playground

Flexible PC connectivity and power supply

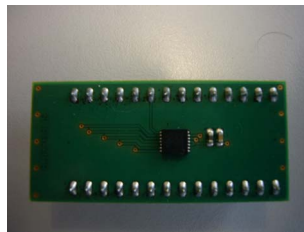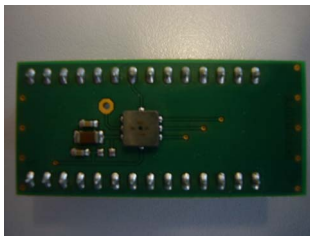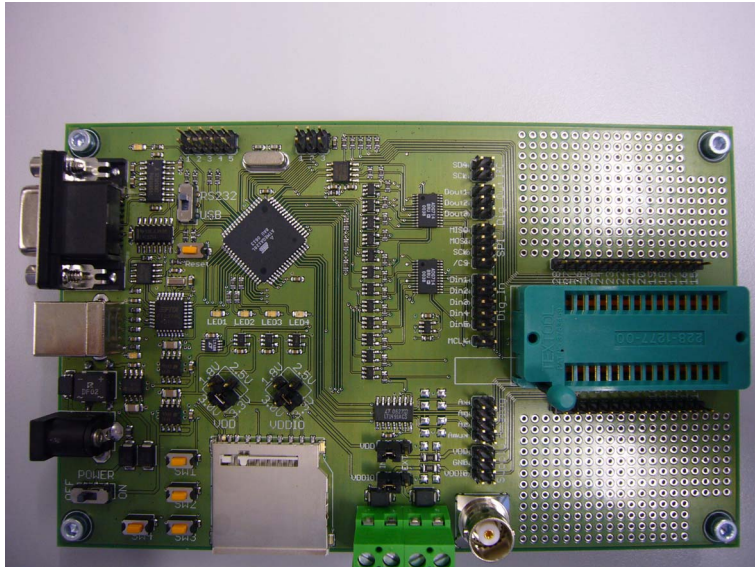Socket for Shuttle Board

SD Card slot

Evaluation Desktop

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Evaluation Board Feature List

➜ USB and Serial Port connectivity

➜ USB powered, wall wart or external power supply

➜ Internal or external clock source

➜ Access to all supply, communication buses and digital / analogue pins

➜ Engineering Playground for external components and connectors

➜ Buttons and LEDs for interactive control

➜ SD Card Slot for stand alone operation

➜ PC Software Evaluation Desktop allows detailed access to all sensor resources

➜ Evaluation Board firmware can be upgraded via USB or Serial Port

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Evaluation Board and Shuttle Boards

→ Status
- Available:
  - Evaluation Board
  - Shuttle Board SMB380
  - Shuttle Board SMG300
- Planned
  - Shuttle Board SMB363 (02/07)
  - Shuttle Board SMB365 (02/07)
  - Shuttle Board SMD500 (02/07)
  - Shuttle Board Module SMB380 and SMG300 (t.b.d.)
  - Shuttle Board Module SMB380 and SMD500 (t.b.d.)

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