



MSB: modular sensor board

fact sheet v1.0

Version:

1.0

Date:

December 2006



Features

- Microcontroller MSP430F1612IPM (55KByte Flash, 5KByte RAM)
- Humidity and temperature sensor sensirion SHT11 on board
- Three-axis accelerometer MMA7260Q

- red LED
- SD card socket
- Chipcon CC1020 with 8.6 dBm max. transmission power, external LNA (low noise amplifier)

- Available at external pins:
 - 8 interrupt enabled I/O pins (Port P1)
 - 8 I/O pins (Port P4)
 - 2 port pins P66, P67 configurable as I/O or as analog out
 - 2 port pins P64 und P66 configurable as I/O or as analog out
 - 2 port pins P36 (TxD1) und P37 (RxD1) configurable as I/O or as serial interface (3V level, no hw support for RTS/CTS)

 - JTAG Interface pins RST_NMI, TCK, TMS, TDI, TDO/TDI
 - GND and 3V power supply (no voltage regulator on board; external power supply needed, 2.8-3.3 V =)

Please note:

The MSB modular sensor board is provided for research and demos in the area of wireless sensor networks. It has not been certified nor tested for usage in any critical environment outside research labs.

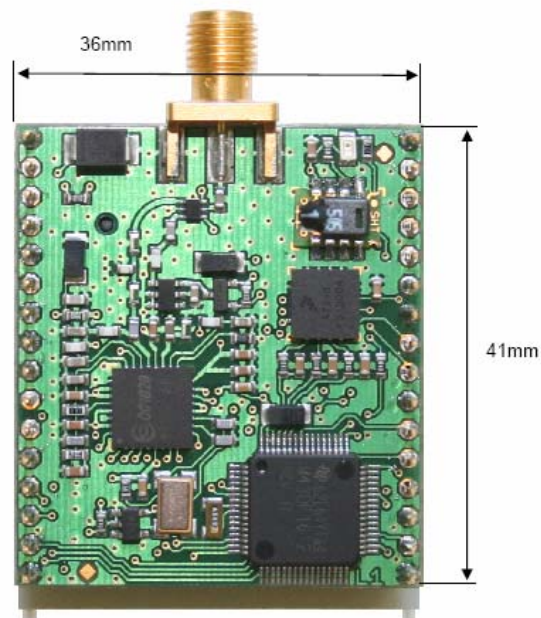
Software running on the MSBs is provided as-is via the cooperation partner Freie Universität Berlin. Software will be available on <http://scatterweb.mi.fu-berlin.de>. Neither Freie Universität Berlin nor ScatterWeb can take over any liability for the software.

Please note, that MSB and the software running on it are **not** compatible with the industry line products of ScatterWeb, especially not with ScatterNode and ScatterGate. MSB is as well **not** compatible with the ESB, the former version of the ScatterWeb research line platform.

For further questions about ScatterWeb please contact info@scatterweb.net



Form factor, connectors



(picture including antenna socket, not included in standard package)

