

BM-SW1 / BM-SW1A *BlueRobin*[™] Sports Watch



The BM-SW1 / BM-SW1A sports watch comes with firmware that allows reception of compatible chest straps (BM-CS5 or BM-CSP3) and up to 17 hours of heart rate data recording. Data download is possible through an optional BM-USBD1 USB receiver dongle.

The BM-SW1 / BM-SW1A watch can be fully reprogrammed, making it the ideal foundation to develop own watch-based applications.

Features

- Highly integrated sports watch based on Texas Instruments SoC
- Components included
 - Texas Instruments CC430F6137 16-bit MCU with integrated sub-1GHz radio, 32kB flash memory and 4kB RAM
 - VTI CMA3000 acceleration sensor (only in BM-SW1A version)
 - EL backlight driver
 - Buzzer
 - Debug connector for use with Texas Instruments FET430 debugger or eZ430 emulator
- Antenna tuned for 868MHz - 915MHz frequency range
- Compatible with BM innovations chest belts with heart rate sensors for EU (868MHz) and US (915MHz)
- Water-resistant black housing
- Custom logo can be supplied when ordering more than 5000 units

Comprehensive development support

- Example watch project for Texas Instruments CCS compiler features basic sports watch functions like time (24H and 12H format), date and stopwatch. It also includes a complete *BlueRobin*[™] implementation with the following features
 - Receive and display data from compatible chest straps
 - BM-CS5 / BM-CS5SR / BM-CS5M: average heart rate
 - BM-CSP3: average heart rate, speed, distance
- Synchronize time, date and user settings through optional BM-USBD1 USB receiver dongle
- Download recorded heart rate data to HRM-format files through optional BM-USBD1 USB receiver dongle

EVALUATION BOARD/KIT IMPORTANT NOTICE

BM innovations GmbH (BM) provides the enclosed product(s) under the following conditions:

This evaluation board/kit is intended for use for **ENGINEERING DEVELOPMENT, DEMONSTRATION, OR EVALUATION PURPOSES ONLY** and is not considered by BM to be a finished end product fit for general consumer use. Persons handling the product(s) must have electronics training and observe good engineering practice standards. As such, the goods being provided are not intended to be complete in terms of required design, marketing, and/or manufacturing related protective considerations, including product safety and environmental measures typically found in end products that incorporate such semiconductor components or circuit boards. This evaluation board/kit does not fall within the scope of the European Union directives regarding electromagnetic compatibility, restricted substances (RoHS), recycling (WEEE), FCC, CE or UL, and therefore may not meet the technical requirements of these directives or other related directives.

The user assumes all responsibility and liability for proper and safe handling of the goods. Further, the user indemnifies BM from all claims arising from the handling or use of the goods. Due to the open construction of the product, it is the user's responsibility to take any and all appropriate precautions with regard to electrostatic discharge.

NEITHER PARTY SHALL BE LIABLE TO THE OTHER FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.

BM currently deals with a variety of customers for products, and therefore our arrangement with the user is **not exclusive**.

BM assumes **no liability for applications assistance, customer product design, software performance, or infringement of patents or services described herein**.

No license is granted under any patent right or other intellectual property right of BM covering or relating to any machine, process, or combination in which such BM products or services might be or are used.

FCC WARNING – This evaluation board/kit is intended for use for **ENGINEERING DEVELOPMENT, DEMONSTRATION, OR EVALUATION PURPOSES ONLY** and is not considered by BM to be a finished end product fit for general consumer use. It generates, uses, and can radiate radio frequency energy and has not been tested for compliance with the limits of computing devices pursuant to part 15 of FCC rules, which are designed to provide reasonable protection against radio frequency interference. Operation of this equipment in other environments may cause interference with radio communications, in which case the user at his own expense will be required to take whatever measures may be required to correct this interference.