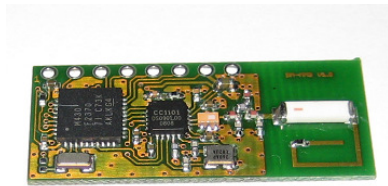


## BM-MM5 *BlueRobin*<sup>™</sup> Serial Receiver Module



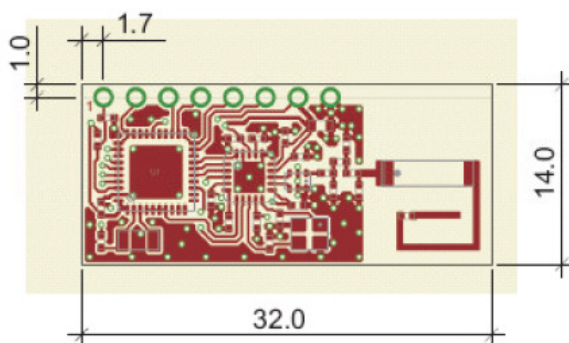
The BM-MM5 serial receiver module is an ideal solution to add *BlueRobin*<sup>™</sup> data reception to an existing system. The module features a complete RF receiver unit including a chip antenna and can be controlled from a host microcomputer via a serial interface. SPI and UART interfaces are supported.

Up to 10 heart rate transmitters can be received simultaneously. The BM-MM5 serial receiver module is compatible with the latest generation of BM innovations chest straps.

### Features

- Highly integrated serial receiver module based on Texas Instruments MSP430 microcontroller and CC1101 RF receiver
- Built-in chip antenna
- Receiving range up to 10 meters (depending on environment)
- Receives heart rate data of up to 10 users simultaneously
- Comprehensive software support
  - Windows 32-bit API for easy integration into customer application
  - C reference project on MSP430 host microcomputer
- Compatible with BM innovations chest belts BM-CS5 with heart rate sensors for EU (868MHz) and US (915MHz)
- Easy to connect to any host microcomputer
  - 6 connections required for SPI version: VDD, GND, SCK, SDI, SDO, CRDY
  - 4 connections required for UART version: VDD, GND, RXD, TXD
- Dimensions of PCB: 32.0 mm x 14.0 mm x 2.2mm

### Mechanical Dimensions



Module Thickness:	2.20 mm +/- 0.20 mm
PCB Thickness:	0.80 mm +/- 0.10 mm
Connector Grid:	2.54 mm +/- 0.10 mm
Connector Holes:	1.00 mm +/- 0.05 mm