BGM220-EK4314A

BGM220 Bluetooth Module Explorer Kit

The BGM220 Explorer Kit is an ultra-low cost, small form factor development and evaluation platform for the BGM220P Bluetooth Module.

The kit features a USB interface, an on-board SEGGER J-Link debugger, one user-LED and button, and support for hardware add-on boards via a mikroBus socket and a Qwiic connector. The hardware add-on support allows developers to create and prototype applications using a virtually endless combination of off-the-shelf boards from mikroE, sparkfun, AdaFruit, and Seeed Studios

Small Form Factor Kit

- EXP compatible breakouts

Target device

- BGM220PC22HNA
    - Secure Bluetooth 5.2 module
    - 76.8 MHz, ARM Cortex-M33 with 512 kB of flash and 32 kB RAM
    - Bluetooth 5.2 Radio with supported for direction finding and LE coded PHY
- 38.4 MHz HFXO crystal
- 32.768 kHz LFXO crystal
- 2.4 GHz matching network and a chip antenna

On-board Board controller

- J-Link debugger
  - SWD physical layer
- Packet trace over UART/async protocol
- Virtual COM with hardware flow control

USB Micro-B connector for debug connection

User interface features

- 1x button (with EM2 wake-up)
- 1x LED

Mini Simplicity Debug Connector (SLSDA001A compatible) with access to

- AEM
- PTI
- VCOM
- SWD

Third-party add-on connectors

- mikroBus socket
- Qwiic connector