

GWBMD0x Bluetooth Low Energy Module



Gigawit® 's GWBMD0x BLE module provides a time-to-market solution to customer, customer can easily enable their products with BLE feature.

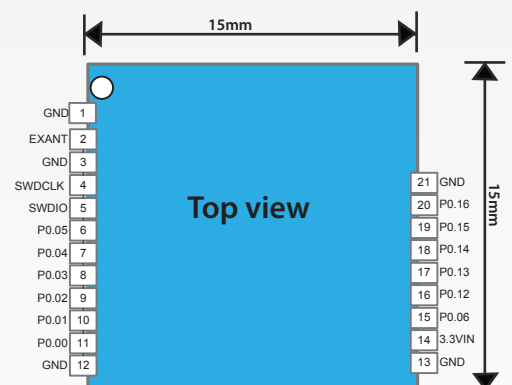
With GWBMD0x 's comprehensive RF design, engineer can focus on application development and free engineering resource and investment on RF design. Customer can easily obtain certification with GWBMD00 embedded as GWBMD0x was certified by FCC and CE.

GWBMD0x formfactor is well balance between small size and easy to handle. The size is suitable for most of applications and is also easy for assembly in production line.

With default UART-to-BLE firmware, engineer can simply connect GWBMD0x to any UART device immediately without any firmware development. Engineer can also develop their own firmware for GWBMD00 . Base on nRF 51822* BLE processor, engineer can make use of the resources provided by Nordic Semiconductor ASA. Gigawit® can also provide firmware customization service.

Gigawit® also provides build-to-order service, customize module base on customer's requirement. For details, please contact Gigawit® channel partners.

- Operation voltage: 1.8 to 3.6VDC
- nRF51822 BLE processor*
- on board chip antenna
- on board DC/DC convertor
- on board 16MHz and 32.768kHz oscillator
- 20 configurable GPIOs
- SPI, UART, ADC and JTAG interface
- default UART to BLE firmware
- operation temperature: -10 to 60°C
- Frequency band:
2.4GHz ISM
- Tx Power:
-20 to +4dBm in 4db steps
- Rx Sensitivity:
-92.5dBm Bluetooth low energy
-96dBm at 250kb
-90dBm at 1Mbps
-85dBm at 2Mbps
- RF range (indoor): approx. 15m
- FCC and CE certification



Part number	Description
GWBMD00	nRF51822 BLE 256K Flash module
GWBMD01	nRF51822 BLE 128K Flash module