

PRODUCT



SonicBoard BLE FBV-EVK-CN52840CFSLR

Product Category [SonicBoard](#)

Communication Standards [Bluetooth® LE](#)

Product Specification



PRODUCT DESCRIPTION

Development board of Bluetooth® LE module "BVMCN52840CFSLR", equipped with SoC "nRF52840" manufactured by Nordic Semiconductor.

FEATURES

Compatible with the latest Bluetooth® Core 5.0 Long-Range mode, we demonstrated in measurements 1.0km (reference value) actual line-of-sight range. This is a "complete" development board provisioned with LEDs expansion IO, digital microphone, audio amplifier, memory (PSRAM), charging IC ports etc., realizing all the low power consumption, long-distance communication, and abundance of I/O ports features of the "BVMCN52840CFSLR". With the test wires included in the kit, it can be readily connected to breadboards, sensors, and modules etc. for evaluation.

USB communication with PC etc. is possible.

By having the same form factor as "FBV-EVK-N9160", it also gives you the same consistent operation as various SonicBoards.

SPECIFICATION

Installed module	Bluetooth® LE module BVMCN52840CFSLR
Frequency Range	2402MHz to 2480MHz
Transmission Power (terminal output)	-40dBm to +8dBm (long-range: +8dBm, legacy: up to +4dBm)
Antenna	Chip Antenna integrated, external antenna can be used by connecting coaxial connector with a switch
Power Supply	5V (USB Micro B and Type C) or supplied from external input terminal (1.7 to 5.5v) (Typ:3.0V)
Jumper Pin	7 pin
Program Pin	9 pin connector for J-Link Lite Segger
Button	9 (7 general purpose buttons, 1 direct reset button, 1 long-press reset button)
LED	2 (full color)
Included Items	1 L-Link Lite Segger, 4 pan head screws, 4 steel spacers, 1 Micro USB cable, 7 jumper pins, 10 through hole test wires
Size	W 80.0mm x D 173.5mm x H 14.0mm
Certification	Japan Radio Law, Bluetooth® SIG

*For details, please see [the product specification](#).

*Product specifications are subject to change without notice.

ELECTRICAL DESIGN CAD DATA

CAD data in project file format that can be edited with the electronic CAD software "Quadcept".

Quadcept Project File

SCHEMATIC

PDF

SOFTWARE

Download Page

Installed module

BVMCN52840CFSLR

Bluetooth® LE module

Bluetooth® LE module "BVMCN52840CFSLR" equipped with Nordic semiconductor SoC "nRF52840"

QUOTATION

Click here to request a quote for this product.

Contact us

Recommended products

BVMLRS923N52S

LoRaWAN™ / Bluetooth® LE combo module

Combo module equipped with SEMTECH RF chip "SX1272" and Nordic semiconductor Bluetooth® LE SoC "nRF"

[Bluetooth® LE](#) [LoRa](#)

BraveGATE

IoT Platform

"BraveGate" is an IoT platform that facilitates control of IoT devices via a network and overwhelmin

[Bluetooth® LE](#) [LTE](#)

FBV-EVK-CN5210S

SonicBoard

Development board of Bluetooth® LE module "BVMCN5210S", equipped with SoC "nRF52810" manufactured by

[Bluetooth® LE](#)