

PRODUCT



LoRaWAN ™ / Bluetooth® LE combo module

BVMLRS923N52S

Product Category
Communication Standards

[Module](#)

[Bluetooth® LE](#) [LoRa](#)



PRODUCT DESCRIPTION

"BVMLRS923N52S" is a combo module equipped with SEMTECH's RF chip "SX1272" and Nordic semiconductor's Bluetooth® LE SoC "nRF52832".

FEATURES

It is a combo module equipped with SEMTECH's RF chip "SX1272" and Nordic semiconductor's Bluetooth® LE SoC "nRF52832".

This stack will be provided as a LoRaWAN library, and for those who have been developing using Bluetooth® LE, it will be possible to develop LoRaWAN devices using that know-how. In addition, the device class is the first in Japan to support Class A and Class C.

The biggest feature of this module is that it can use LoRaWAN in the 920MHz band and Bluetooth® LE in the 2.4GHz band in a concurrent manner, which enables communication with apps via smartphones and PCs, firmware updates by OTA, etc. I will.

•Japan Radio Law certified combo module equipped with nRF52832-QFAA (Nordic) and SX1272IMLRT (Semtech)

•As a Bluetooth® LE module / LoRa module, it can be used immediately because it has been certified by the Radio Law of Japan and Bluetooth® SIG.

•Confirmed connection to LoRaWAN ™ reduces design load
*LoRa Alliance certified

•920MHz band LoRaWAN ™ and 2.4GHz band Bluetooth® LE can be used concurrently

•Communication with apps via smartphones and PCs, firmware update by OTA (On The Air) is possible

SPECIFICATION

LoRa	SEMTECH RF chip "SX1272"
Bluetooth® LE	Nordic semiconductor Bluetooth® LE SoC "nRF52832"
Certification	Japan Radio Law and Bluetooth® SIG, LoRa Alliance certified
Frequency Range	Software control Bluetooth® LE: 2402MHz to 2480MHz LoRa: 920.6MHz to 928.0MHz FSK: 920.6MHz to 928.0MHz
Transmission Power (terminal output)	Software control Bluetooth® LE: -40dBm to +4dBm LoRa: -1dBm to +13dBm *In 920MHz mode, the maximum output power is voltage-dependent. FSK : -1dBm to +13dBm *In 920MHz mode, the maximum output power is voltage-dependent.
Operating voltage	1.8 to 3.6v
Antenna	External Antenna *Various antennas certified by the Radio Law of Japan can be used. Please contact us for details.
Interface	18pin (UART,SPI,I2C,ADC,GPIO,NFC)、SEGGER Port: 2pin 全 64pin
Size	W 22.0mm x D 22.0mm x H 1.85mm

*For details, please see the product specification.

QUOTATION

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Bluetooth® LE module

Bluetooth® 5.0 compatible module for IoT devices that realizes small size and low price that can be

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BraveROUTE

LTE ROUTER

"BraveROUTE" is an LTE router that not only aggregates data from Bluetooth® Low Energy devices and

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