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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





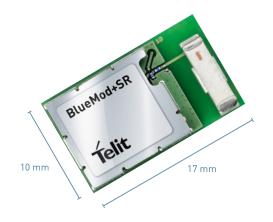




BlueMod+SR

Bluetooth Low Energy

Dual Mode Module





Product Description

BlueMod+SR is a Bluetooth solution for cable replacement applications and smartphone connectivity. Regardless of whether the application requires high throughput or low energy consumption, BlueMod+SR offers the best of both worlds. The module offers NFC handover as an additional feature. NFC handover enables easy Bluetooth pairing for Bluetooth classic and Bluetooth low energy. Searching for Bluetooth devices over the air is no longer required.

The module has a very small form factor dual mode Bluetooth 4.0 module (17x10x2.6 mm). Range in line of sight is about 100m.

Dual mode means it supports classic Bluetooth basic rate (BR) and enhanced data rate (EDR) operations as well as Bluetooth low energy (LE). Integration is easy and cost-effective thus reducing time to market and overall development cost of new products.

For basic rate operations it fully offers simple Serial Port Profile (SPP) connections with full Secure Simple Pairing. The module allows multiplexing solutions with two parallel connections. For basic and enhanced data rates the average net transmission speed is about 300 kbit/s.

For low energy operations the module offers the Terminal I/O profile. Terminal I/O allows transparent UART data and GPIO state transfer in low energy mode similar to SPP in basic rate mode. For low energy transmission with Terminal I/O the average transmission speed is about 50 kbit/s. In addition, the module comes with a generic GATT interface. This interface allows the use of any standard Bluetooth low energy profile.

The command interface is based on the well-known AT Command Set.

Key Benefits

- Bluetooth v4.0 dual mode compliant
- Master and slave mode support
- Simultanous BR/EDR and BLE connectivity
- Integrated antenna or external antenna
- NFC Support: Read and write of data to a dynamic NFC tag
- Pin to pin compatible with BlueMod+S modules (Bluetooth Low energy)

NFC Handover

BlueMod+SR is able to read and write its Bluetooth address to a dynamic NFC tag which can be used for Bluetooth pairing. The NFC tag is connected to the BlueMod+SR via the I²C interface. The field detection function on the tag can be used to wake up the BlueMod+SR from standby and to initiate the Bluetooth communication.

Telit provides an NFC Utility App for Android devices for evaluating the NFC handover feature. The app can declare two intent filters for the NDEF data on the NFC tag, One for BR/EDR and one for Bluetooth low energy handover.

Family Concept

The BlueMod+S and BlueMod+SR as well as the BlueMod+S42 modules are mechanically and electrically compatible. The modules also have compatible software interfaces, and can easily be replaced by each other without additional changes to the hardware or software.

Combine your BLE module with

Cellular modules



GNSS modules



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Complete, Ready to Use Access to the Internet of Things







ENABLING THE IOT IS WHAT WE DO.

BlueMod+SR

Profiles

- Classic Bluetooth SPP Profile
- GATT and Terminal I/O Profile
- 1 SPP and 1 Terminal I/O in parallel
- Supported NFC tags: NXP NT3H1101, NT3H1201

Optional Features

- BlueMod SR+ is available with or without antenna
 - -Antenna internal: ceramic
 - -Antenna external: pin

Environmental

- LGA pads
- Length x Width x Height: 17x10x2.6 mm
- Temperature range:-30°C to +85°C

Interfaces

- UART: 9600 bps 921600 bps (asynchronous)
- Other interfaces: I2C, SPI
- GPI0s: 11

Approvals

- Bluetooth 4.0,
- CE, FCC, IC, KCC, MIC

Electrical

- Power supply: 2.5V to 3.6V
- RF-Power (max) -23 to +8 dBm (software adjustable)
- Power consumption Transmission: 15-27 mA (depending on connection parameter)
- Power consumption idle: SPP: 0.75 mA
- Terminal I/O: 0.25 mA
- Power consumption deep sleep: 0.15 mA

Tools

• BlueEva+SR: Evaluation Kit



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Telit Communications S.p.A.
Via Stazione di Prosecco, 5/B
I-34010 Sgonico (Trieste), Italy
Phone +39 040 4192 200
Fax +39 040 4192 383

E-Mail EMEA@telit.com

Telit Wireless Solutions Inc. 3131 RDU Center Drive, Suite 135 Morrisville, NC 27560, USA

Phone +1 888 846 9773 or +1 919 439 7977
Fax +1 888 846 9774 or +1 919 840 0337
E-Mail NORTHAMERICA@telit.com

Telit Wireless Solutions Inc. Rua Paes Leme, 524, Conj, 126 05424-101, Pinheiros São Paulo-SP-Brazil Phone +55 11 3031 5051

+55 11 3031 5051

E-Mail LATINAMERICA@telit.com

Telit Wireless Solutions Co., Ltd. 8th Fl., Shinyoung Securities Bld. 6, Gukjegeumyung-ro8-gil, Yeongdeungpo-gu Seoul, 150-884, Korea

Phone +82 2 368 4600 Fax +82 2 368 4606 E-Mail APAC@telit.com





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