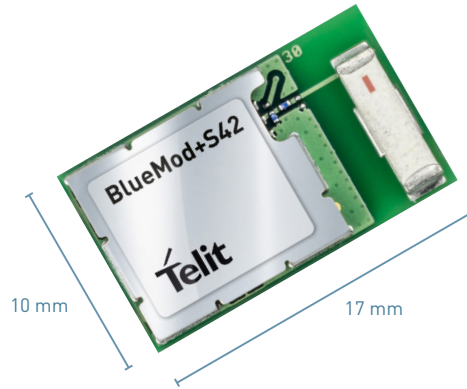


BlueMod+S42

Bluetooth Low Energy Single Mode Module



Product description

The BlueMod+S42 is a next generation Bluetooth single mode module based on the nRF52 Nordic chipset. It is designed for smartphone connectivity and cable replacement applications with low energy consumption.

The BlueMod+S42 supports the Terminal I/O profile as well as most GATT based profiles.

Profiles

Terminal I/O works similar to SPP and offers a simple point-to-point connection, including flow control over-the-air, for use cases that require low data rate and transparent data exchange. It is controlled by an AT command interface. The module also comes with a generic GATT interface. This interface allows the use of most Bluetooth Low Energy standard profile as well as customer specific proprietary profiles. The module will allow for concurrent central and peripheral operations.

Key Benefits

- Bluetooth v4.2 qualified module
- CE, FCC, IC certified
- Generic GATT Client and Server
- Terminal I/O for Easy Transparent Data Transfer
- Sample Code for iOS and Android
- Important supported Bluetooth 4.2 features:
 - LE Secure Connections
 - L2CAP Connection oriented channels
 - Long MTU size
 - Data packet length extension

NFC Handover

BlueMod+S42 supports the NFC functionality of the Nordic nRF52382 chip. NFC handover simplifies device pairing and connection setup.

The BlueMod+S42 emulates an NFC Forum compliant Tag Type 2 and provides a standardized Bluetooth handover record to the reader, thus allowing for automatic pairing without manual interaction.

Telit provides a dedicated NFC utility app for Android devices for evaluating the handover feature.

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.



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BlueMod+S42

Profiles

- Generic GATT Client and Server
- Terminal I/O for Easy Transparent Data Transfer

Environmental

- LGA pads
- Integrated ceramic Antenna: +1.8 dBi
- Length x Width x Height:
17x10x2.6 mm
- Temperature range: -40°C to +85°C

Interfaces

- UART: 9600 bps – 921600 bps (asynchronous)
- Other interfaces: I²C, SPI, PWM, ADC
- GPIOs: Up to 21

Approvals

- Bluetooth Qualification 4.2
- CE, FCC, IC, KCC

Electrical & Sensitivity

- Power supply: 1.8V to 3.6V
- Transmit Power: -20 to +4 dBm
- Receiver Sensitivity: -96 dBm
- Max power consumption transmission: 7.5 mA
- Power consumption standby: 1.4µA
- Power consumption sleep: 400 nA

Tools

- BlueEva+S42: evaluation kit
- BlueDev+S42: development kit



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