BRKLSM100A Breakout board LoRaWan & Sigfox LSM100A Based

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This LoraWan and Sigfox module development and quick start board, based on the Seong Ji WSLSM100A module, will allow you to integrate and use LoraWan and/or Sigfox LPWAN networks in the design of your IOT project.

Conversion to LoRa mode or Sigfox mode is done using simple AT commands

The LSM100A module is a compact, low-power two-way radio module optimized for use in the 863 MHz ~ 928 MHz ISM bands using LoRa(TM) and Sigfox modulation technology.

This module supports LoRa(TM) & Sigfox communication protocols and can be converted to LoRa mode or Sigfox mode using simple AT commands.

The WSLSM100A is an ultra-long-range, high-performance module.

The modules are pre-certified LoRaWan and Sigfox guaranteeing its compatibility for communication on these LPWAN networks.

The card integrates all the passive components necessary for wireless communication.

Specifications:

- LSM100A based
- LoRa & Siafox
- 868Mhz
- Embedded software library
- Host CPU STM32WLE5CC
- Voltage : 1.8V ~ 3.6V
- Size : 14 x18 mm
- UART Interface
- AT Commandes
- API Version via SDK

Available Kit (RC1):

- BRKLSM100A board
- 868Mhz 1/2 wave antenna
- UFL to SMA 100mm cable
- 2x Male Pin Connector

Ref: PB0004430

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Pin Description:



Name	Туре	Description
UART2-TX	0	UART Transmit
UART2-RX	I/PU	UART Receive
RST	I/PU	Opional Reset Pin
VCC	Р	Power Supply
GND	Р	Ground

Communication Commands:

The module is controlled with serial AT commands sent on TX/RX pins. Below is the communication specification and AT commands to use: Serial communication: 9600 bauds, 8bits, 1 stop bit, no parity

Communitation Test:	AT	
Change mode Lora <> Sigfox:	AT+MODE=mode <i><mode>:[0: SigFox, 1: LoRa]</mode></i>	
Get Sigfox ID from module:	AT\$ID	
Get Sigfox PAC from module:	AT\$PAC	
Send Sigfox message:	AT\$SF=payload,opt_responsewaited,opt_txflag <payload>: [12 bytes maximum in ASCII format] <opt_responsewaited>: [0: no response waited] [1: response waited] <opt_txflag txflag="">: [0: one Tx frame sent] [1: three Tx frames sent]</opt_txflag></opt_responsewaited></payload>	
Get LoRa Key:	AT+APPEUI=? AT+NWKKEY=? AT+APPKEY=? AT+=?	
Send LoRa message:	AT+SEND=port:ack:data <i><port>:[1 ~ 199] <ack>:[0: unconfirmed, 1: confirmed]</ack></port></i>	



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