BATT & RF UART SHIELD DATASHEET

ARDUINO COMPATIBLE

■ INTRODUCTION

UNO BATT & RF UART SHIELD design is for wireless application, The board include 2xAAA (LR03) battery holder / 5V DC2DC converter and a RF UART module LC-1000 which from INHAOS.

The board can be provide 5V 1.5A to UNO and the other extender board, normally 2 AAA battery can be use 24H continuous, if you make UNO in to power save mode , the time will be longer.

The shield also can be use Ni-MH rechargeable batteries.

■ FEATURES

- Directly connect to UNO
- Onboard AAA (LR03) battery holder
- Onboard high performance 2.4G RF UART module
- 5V 1.5A max output current
- Build in low battery detect
- RF UART can be connect to hardware UART or IO8/IO9 with softwareserial and select by jumper
- Max baudrate 57600bps
- Can be communication with another RF UART shield or connected to a PC via LC-1000U
- Can be working in 1 to N mode

■ APPLICATION

Application 1: Two UNO communication to each other

LC-1000U

Application 2: UNO Communication to PC

Application 3: 1 to N communication & PC Based 1 to N communication

■ PARAMETER

- Support battery: Any AA Size battery
- Output voltage: 5V 1.5A
- DC/DC Efficiency: Max 96%
- RF Baud: 2.4GHz ISM baud
- RF Power: Max 0dBm
- Max distance: 30m outdoor
- Max baudrate support: 57600bps

More information about LC-1000/LC-1000U , please visit INHAOS website: www.inhaos.com
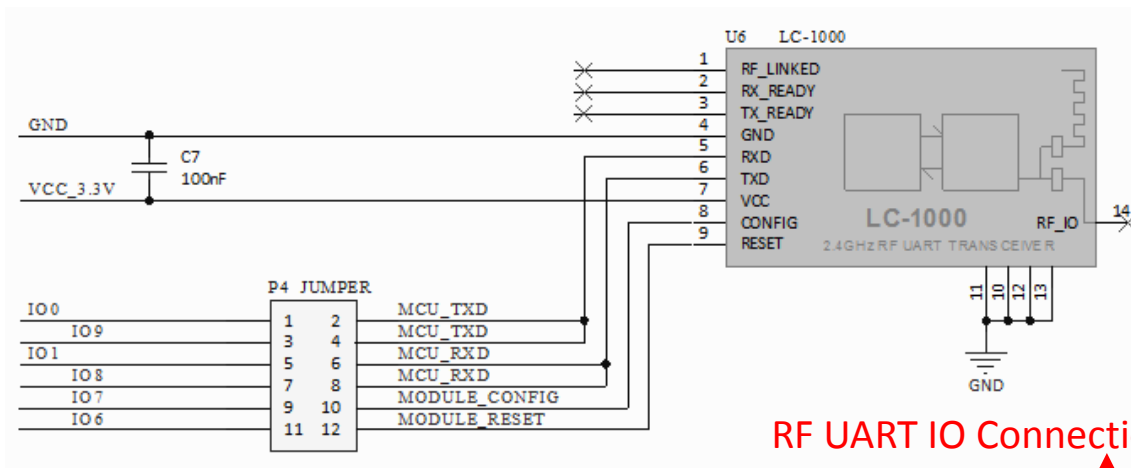
■ CONTACT US

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RF UART IO Connection setting:

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PIN	NAME 1	NAME 2	CONFIG
1 , 2 5 , 6	IO 0 IO 1	MCU_TXD MCU_RXD	Connected when use hardware UART, BUONO UNO LITE have no onboard USB2SERIAL bridge so user can use hardware UART for communication
3 , 4 7 , 8	IO 9 IO 10	MCU_TXD MCU_RXD	Most UNO have onboard USB2SERIAL bridge so can not direct connected to hard uart , in this case user can connected 3-4 and 5-6 to enable softserial connection
9 , 10	IO 7	MODULE_CONFIG	Connected if you need to config the module, the module can be direct use with 3-line simple connection , if you want to connection another module or change baud rate , you need to use this pin for make module in CONFIG MODE
11 , 12	IO 6	MODULE_RESET	The module communication to MCU by pre_setting, if user forgot the baudrate , you can use this pin for reset to default baud