Bluetooth V4.1 Low Energy BLE RS-232 Serial Adapter

Model: BLE-232



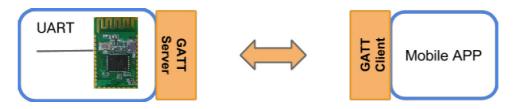
Application:

- Automation
- Sports & fitness
- Health care & Consumer wellness
- Home application
- Automotive
- Security & Proximity
- Data Transferring

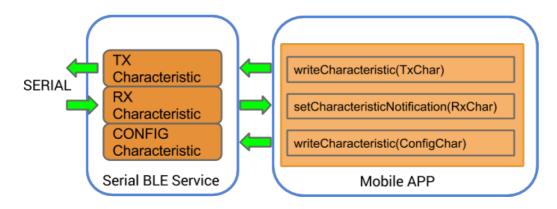
Specifications:

Frequency band	2.4GHz ISM (2.40000 – 2.4835GHz)		
Microcontroller	32-bit ARM Cortex M0		
On-air data rate	250 kbps, 1 Mbps or 2 Mbps		
Modulation	GFSK		
Output power	Programmable: +4 to -20dBm in 4dB steps		
Sensitivity	-93dBm <i>Bluetooth</i> low energy		
	-96dBm at 250kb		
	-90dBm at 1Mbs		
	-85dBm at 2Mbs		
Radio current consumption	16mA – TX at +4dBM output power		
LDO at 1.8V	10.5mA – TX at 0dBm output power		
	13mA - RX at 1Mbs		
Radio current consumption	10.5mA – TX at +4dBm output power		
DC-DC at 3V	8.1mA – TX at 0dBm output power		
	9.5mA - RX at 1Mbs		
System current	420nA – No RAM retention		
consumption	530nA - 8k RAM retention		
	2μA – All peripherals in IDLE mode		
Hardware Security	128-bit AES ECB/CCM/AAR co-processor		

System Architecture:



GATT Service:

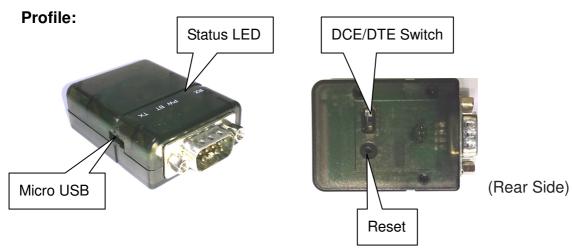


Programming Interfaces:

GATT	UUID	
Serial BLE Service	ba920001-d666-4d59-b141-05960b3a4ff7	
TX Char	ba920002-d666-4d59-b141-05960b3a4ff7	
RX Char ba920003-d666-4d59-b141-05960b3a4f		
Config Char	ba920004-d666-4d59-b141-05960b3a4ff7	

Configuration Command:

Function	Command
Config Serial baud rate	
Change Device Name	name= <device name=""> ex. "name=SerialBLE"</device>



User Interfaces:

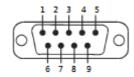
1. DB9 Male

2. Micro USB (side): Power input

3. Slide switch (Rear side): DCE/DTE

4. Tact switch (Rear side): Reset to default setting

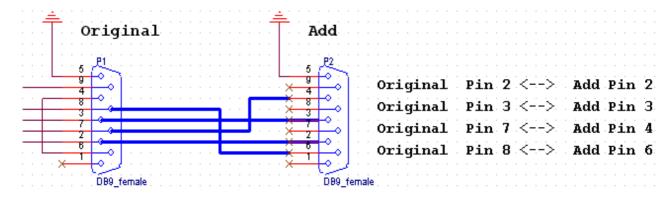
Pin-out Definition: (DB9 Male)



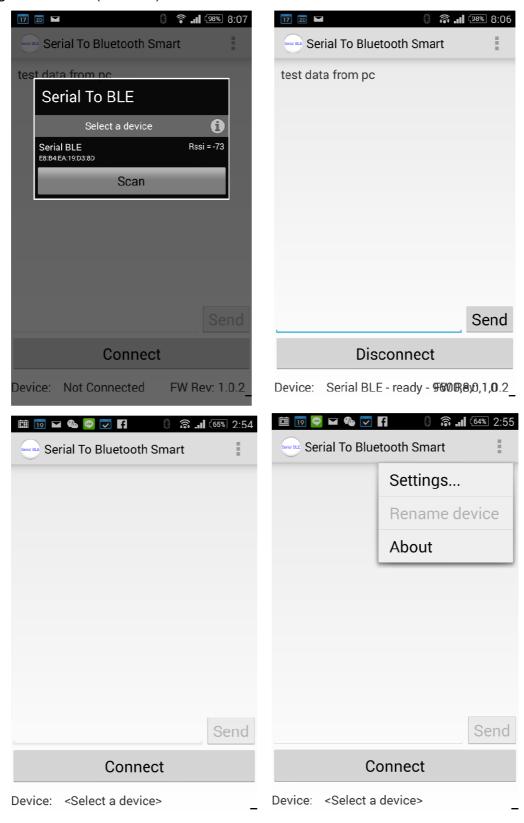
Signals:

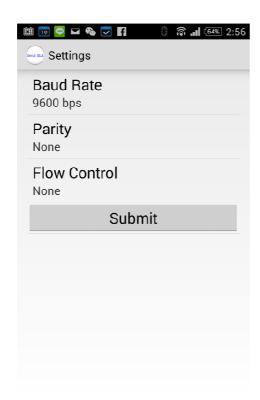
Pin	Signal	DTE Direction	DCE Direction	Description
1	CD	Input	Output	Not connected
2	TxD	Output	Input	Transmitted data
3	RxD	Input	Output	Received data
4	DSR	Input	Output	Contact manufacturer to set this
5	GND	N/A	N/A	Signal ground
6	DTR	Output	Input	Contact manufacturer to set this
7	CTS	Input	Output	Clear to send
8	RTS	Output	Input	Request to send (Default)
9	Vcc	Input	Input	Power supply (5VDC, 1.5A Max.)

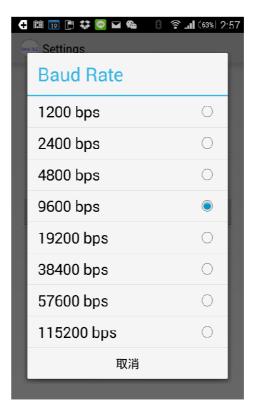
Remark: DSR/DTR Connection



Configuration APP (Android): Please contact the vendor for the APP











Remark: All contents are subject to change without notice.



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