

Bluetooth Serial Converter UART Interface 9600bps User's Guide



BLUETOOTH SERIAL CONVERTER UART INTERFACE 9600BPS USER'S GUIDE

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Bluetooth Serial Converter UART Interface 9600bps

NOTES:

Product Version : Ver 1.0

Document Version : Ver 1.0



Chapter 1. Bluetooth Serial Converter UART Interface 9600bps

Key Features

- ♦ Bluetooth Spec v2.0+EDR Compliant
- ♦ Enhanced Data Rate (EDR) compliant with V2.0.E.2 of specification for both 2Mbps and 3Mbps modulation modes
- ♦ Class 2 Type Output Power
- Full Speed Bluetooth Operation with Full Piconet Support
- ♦ Scatternet Support
- ♦ 3.3V Operation
- Minimum External Components
- ♦ UART Interface
- Support for 8Mbit External Flash Onboard
- ♦ Support for 802.11Co-Existence
- ♦ RoHS Compliant



Product Description

GL-6B is a Class 2 Bluetooth module using BlueCore4-AudioROM chipset from leading Bluetooth chipset supplier Cambridge Silicon Radio.

This converter is used to convert a UART with 9600bps, one start bit, 8 data bits, one stop bit, no parity bit format to Bluetooth UART protocol. It can not talk to a same device but only to PC Bluetooth dongle. That is, it will create communication between an embedded microcontroller and a PC, but not between 2 embedded devices.

For the password, normally it doesn't need a password, when PC could find the converter, just double click it and the connection will be created. If it requests you to input password all the same, it shall be 0000 or 1234.

Applications

- ♦ Bluetooth Carkit
- ♦ PCs
- Computer Accessories

♦ Access Points

Specifications

Operating Frequency Band	2.4GHz-2.48GHz unlicensed ISM band
Bluetooth Specification	V2.0+EDR
Output Power Class	Class2
Operating Voltage	3.3V
Host Interface	UART
Dimension	26.9mm(L)×13mm(W)×2.2mm(H)

^{*} Specification are subject to change without prior notice

Electronics Characteristics

Absolute Maximum Ratings					
Rating	Min	Max			
Storage Temperature	-40℃	+150℃			
Supply Voltage	-0.4V	5.6V			
Other Terminal Voltage	VSS-0.4V	VDD+0.4V			

Recommended Operating Conditions						
Operating Conditions	Min	Max				
Operating Temperature Range	-40℃	+150℃				
Guaranteed RF Performance	-40℃	+150℃				
Range*						
Supply Voltage	2.2V	4.2V				

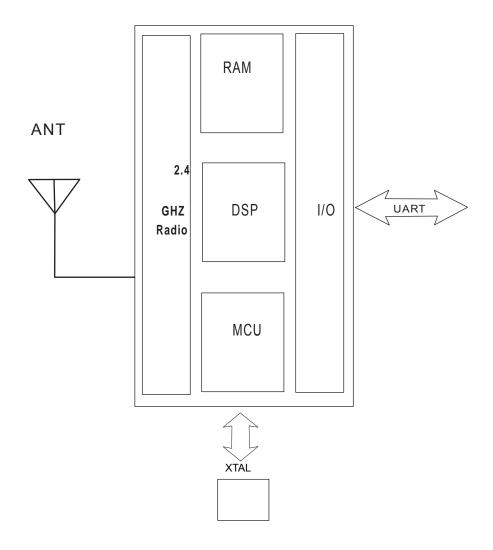
^{*} Typical figures are given for RF performance between -40℃ and +105℃.

Power Consumption

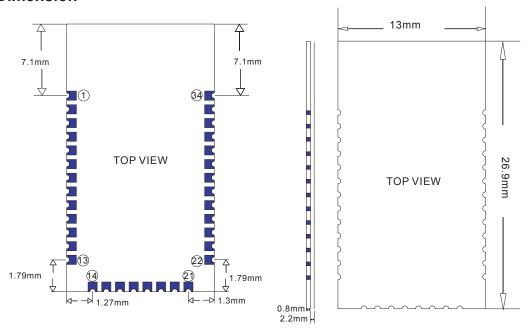
Operation Mode	Connection Type	UART Rate (Kbps)	Average	Unit	
Page Scan	-	115.2	0.42	mA	
ACL No Traffic	Master	115.2	4.60	mA	
ACL with File Transfer	Master	115.2	10.3	mA	
ACL 1.28s Sniff	Master	38.4	0.37	mA	
ACL 1.28s Sniff	Slave	38.4	0.42	mA	
Standby Host Connection	-	38.4	40	μA	

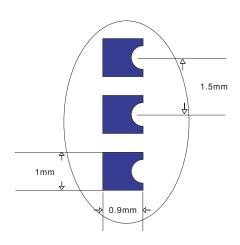
^{*} Low power mode on the linear regulator is entered and exited automatically when the chip enters/leaves Deep Sleep mode. For more information about the electrical characteristics of the linear regulator, see section 4 in this document.

Block Diagram



Dimension



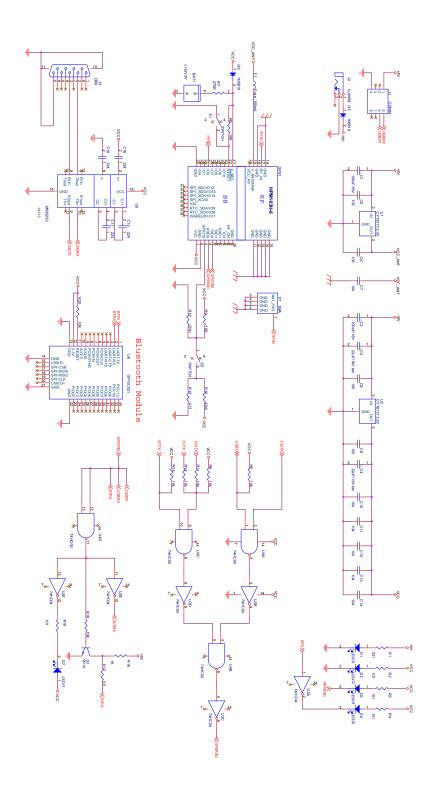


Pin Configuration

PIN NO.	NAME	TYPE	FUNCTION	RE-MARK
1	UART-TX	CMOS	UART Data Output	
		Output		
2	UART-RX	CMOS Input	UART Data Input	

3	UART-CTS	CMOS Input	UART Clear to Send Active		
			Low		
4	UART-RTS	CMOS	UART Request to Send		
		Output	Active Low		
5	NC	-	-		
6	NC	-	-		
7	NC	-	-		
8	NC	-	-		
9	NC	-	-		
10	NC	-	-		
11	RESETB	CMOS Input	Reset if low. Input debounced		
			so must be for >5ms to cause		
			a reset.		
12	3.3V	POWER	+3.3V Supply	For 3.3	٧
				Version	
13	GND	GND	Ground		
14	GND	GND	Ground		
15	NC	-	-		
16	NC	-	-		
17	NC	-	-		
18	NC	-	-		
19	NC	-	-		
20	NC	-	-		
21	GND	GND	Ground		
22	GND	GND	Ground		
23	NC	-	-		
24	NC	-	-		
25	NC	-	-		
26	NC	-	-		
27	NC	-	-		
28	NC	-	-		
29	NC	-	-		
30	NC	-	-		
31	NC	-	-		
32	NC	-	-		
33	NC	-	-		
34	NC	-	-		

Application Schematics



Bluetooth Serial Converter UART Interface 9600bps

More information about the application schematics website with product number GP-GS010.	and	hardware	can	be	got	on	our



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