



Part Number: AA-AB41158

Description: BLUETOOTH AUDIO RECEIVER BOARD V4.0 WITH CONTROL PANEL - BRB6P[701]

Sure Electronics is proud to announce its release of its brand new Bluetooth V4.0 Audio Receiver Board with Control Panel - BRB6P. BRB6P is a family member of the High Sound Quality BRB Series, offering exceptional audio fidelity, with low noise and low distortion. To fit for most DIYer's requirements of easy installation, a pre-drilled control panel will come with the receiver board, for music menu control, like volume control, the next song, pause, stop control. Besides that, with an integrated AUX input port, this module also supports wired line in input, which is a good balance between flexibility and high performance.



- *Board Type: Board*
- *Input: Bluetooth*
- *Output: 3.5mm AUX*
- *Size: Others*
- *Power Voltage: 10V-24V*

Features:

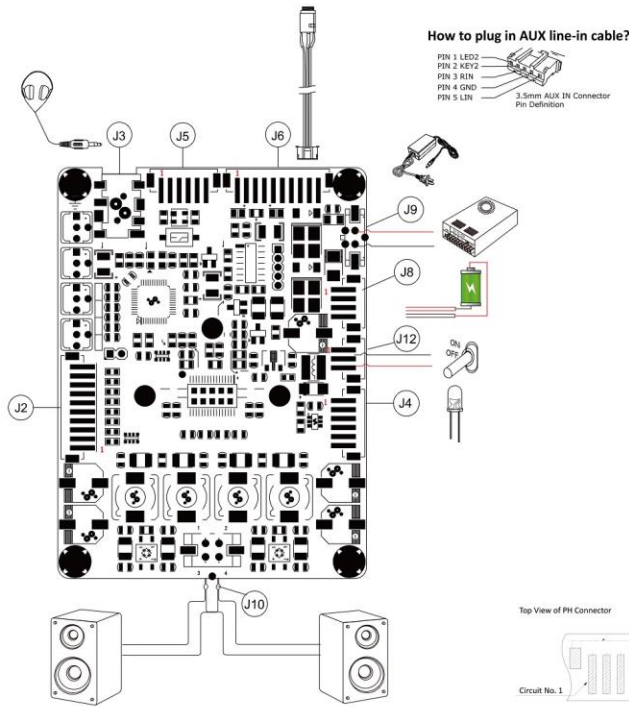
- *CSR8645 Chipset*
- *Bluetooth V4.0 +EDR, A2DP, AAC*
- *Power Supply: Supporting 3s 18650 Battery Board*
- *Closable Backlight Buttons*
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- *(I-PEX Micro RF Coax Connector)*
- *External Bluetooth Antenna included*
- *(Default Package: I-PEX Antenna, I-PEX to SMA solution available.)*
- *Bluetooth Pairing Name Customizable*
- *Mounted Control Panel for Channel Selection, Volume Control and Song Switching.*
- *Line Signal Straight Through*

Specifications typical @+25°C, Powered by 12V DC, unless otherwise noted. Specifications subject to change without notice.

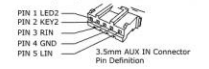
Parameter	Conditions	Min.	Typ.	Max.	Units
Power Supply	-	10.5	12	24	VDC
Distortion	V _o =700mVrms, f=1kHz	0.12			%
Quiescent Current	V _{in} =12V	-	20	30	mA
Maximum Current	-	-	35	40	mA
BT Wireless Range(with BT Antenna)	-	10	-	-	m
Operating Temperature	-	0	20	55	°C
Storage Temperature	-	-40	20	105	°C

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Parameter	Conditions	Min.	Typ.	Max.	Units
THD	V _{in} =775mVrms, f=1kHz	-	0.002	-	%
Output Noise Level	V _{in} =12V	-	5.1	-	µV
SNR	V _{in} =775mVrms, f=1kHz	-	94	-	dB



How to plug in AUX line-in cable?



Audio Output Connector
J3, 3.5mm Headphone Connector

Speaker Output Connector:
J10 MOLEX-4PIN-3MM

Pin	Definition
1	LOUT+
2	ROUT+
3	LOUT-
4	ROUT-

Switch Control Connector:
J12 PH-3PIN-2MM

Pin	Definition
1	STBY
2	GND
3	MUTE

Programming Port:
J4 PH-6PIN-2MM

Pin	Definition
1	SDA
2	SCL
3	WP
4	GND
5	VIN
6	RST

Power Connector:
J9 MOLEX-2PIN-3MM

Pin	Definition
1	VCC
2	GND

3.5mm AUX IN Connector:
J6

Pin	Definition
1	VCC
2	VCC
3	GND
4	LED1
5	KEY1
6	LIN
7	GND
8	RIN
9	KEY2
10	LED2

Battery Board Connector:
J8 PH-4PIN-2MM

Pin	Definition
1	VBAT
2	VBAT
3	GND
4	GND

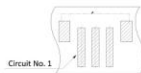
Audio Extension and Compatible Port:
J5 PH-6PIN-2MM

Pin	Definition
1	LIN
2	LOUT
3	GND
4	GND
5	ROUT
6	RIN

DSP Extension Port:
J2 PH-10PIN-2MM

Pin	Definition	Pin	Definition
1	GND	6	MP00
2	DATA	7	MP01
3	LRCLK	8	MP05
4	BCLK	9	MP04
5	MP07	10	+3.3V

Top View of PH Connector



Circuit No. 1