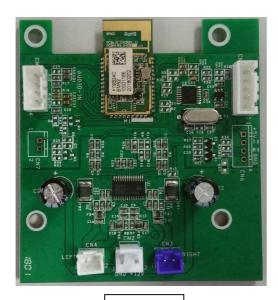
BT module

Overview

OS-888 is a bluetooh module applied for OSIM Massage chair. This board will be mounted on the side of the Chair. A host device (eg. Andriod or IOS device) is used to connect and communicate.

* ESD solutions have to be implemented at the front ends (eg. line-in socket) exposed to ESD generated by consumers.

CAUTION: Wear proper Electrostatic Grounding Equipment when handling and installing/removing PCBA.

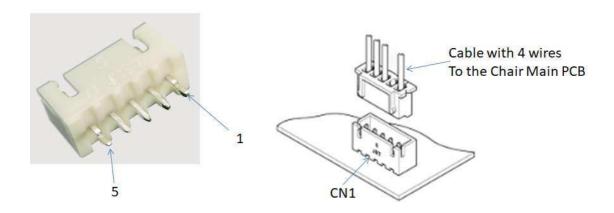


Top View

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Technical Specifications

CN1-1	PWR		
CN1-2	NC	No Connection	
CN1-3	TX	UART Data Out [+3.3V based TTL level] [To Main PCB]	
CN1-4	RX	UART Data In [+3.3V based TTL level] [From Main PCB]	
CN1-5	GND	Power Supply Return	

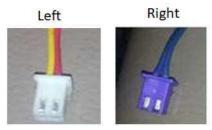


3 [12] D	2B-XH-AJ - 10	p-entry 2Positions Header, Shrouded Connector, (2.50mm) Through Hole. (Purple)
CN3-1	Spkr+	Right Channel, Audio Output Positive
CN3-2	Spkr -	Right Channel, Audio Output Negative

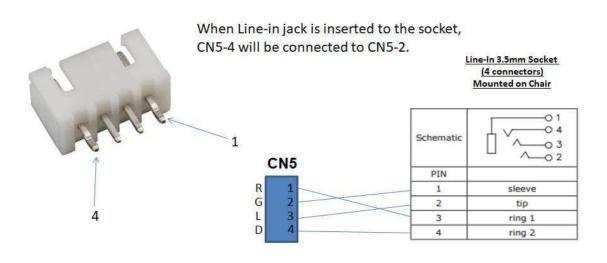
N4 [JST B2B-XH-A] - Top-entry 2Positions Header, Shrouded Connector, (2.50mm) Through Hole. (White)		
CN4-1	Spkr+	Left Channel, Audio Output Positive
CN4-2	Spkr -	Left Channel, Audio Output Negative



To the Speaker connections on the Chair



CN5-1	Right	Audio Line -in , Right
CN5-2	Gnd	Audio Common
CN5-3	Left	Audio Line-in, Left
CN5-4	Detect	Line-in detect

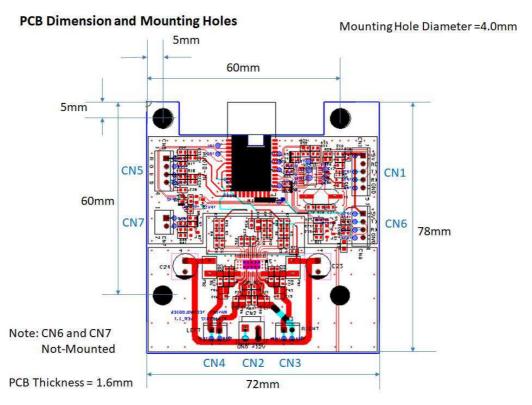


Bluetooth Specifications			
Bluetooth (BR/EDR)			
Power class	Class 2		
Frequency Spectrum	2.402 GHz to 2.480 GHz		
Peak antenna gain	0 dBi	PCB antenna	
Profiles	A2DP, SPP		
Range	10 meters		

UART Specifications			
Interface	RS232		
Baud Rate	38400 [BPS]		
Start Bit	1 [BIT]		
Data Length	8 [BIT]		
Parity Bit	None		
Stop Bit	1 [BIT]		
Data I/O Level	3.3V TTL		

Audio Specifications			
Audio Source	Bluetooth Wireless or Line-in	Bluetooth Wireless cut off when Line-in plug is inserted	
No. of Channels	2	Bridge-Tied Load (BTL) Stereo	
Load Impedance	8 Ω		
Output Power	7 W per channel	9 W at 10% THD+N	
EQ	5 Band	Pre-set or customised	
3dB bandwidth	20KHz		

PCB Dimension



- a. PCBA size (+/- 1mm)
- b. Mounting hole positions and dimensions (+/- 0.1mm)
- c. PCB Thickness = 1.6mmd. FR4, 2-layer, 1/1 OZ finished, HASL

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna.
- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/TV technician for help.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) L'appareil ne doit pas produire de brouillage;
- 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This device is intended for OEM integrators only. Please see the full grant of equipment document for restrictions.

If this certified module is installed inside the host device, then the outside of the host must be labeled with "Contains FCC ID: ARG-OS-888 and IC: 10142A-OS888".