

1. Customer : Senior Group LLC

2. Model Number : MFC REMOTE2

3. Information

Model :mFCBTR01
Product :mFCBluetoothRemoteGPN2 Manufacturer :HyunSeungB&C Co.,Ltd
Power :DC3V
FCC ID :2AUGKAPCR01
IC :2009AUCBTR01

4. Main Functionality:

- 1) Bluetooth LE Transmission for Communication to STB - Realtek RTL 8752 - Profile(s): HID for Control / Battery Service for Battery Level
- 2) Bluetooth Classic to be used exclusively for Voice Command/Audio Streaming to STB - Realtek RTL 8763 - Profile: Head Set Profile (HSP)
- 3) Infrared URC Library for TV and CAB (Support Brands/Devices of Existing IR Remote)
- 4) Infrared Learning for Codes not in URC libraries
- 5) Microphone for Voice Command/Audio Streaming.
- 6) Add TALK Button for Activating/Deactivating Voice Command/Audio Streaming

5. Function & Code Table

Key Number	Key Name	Device Type	Transmission Type	Code Type
0	UP	mFC STB	BLE	Fixed
1	LEFT	mFC STB	BLE	Fixed
2	OK	mFC STB	BLE	Fixed
3	RIGHT	mFC STB	BLE	Fixed
4	DOWN	mFC STB	BLE	Fixed
5	VOL +	TV URC	IR	URC/Learn
6	CH +	CAB URC	IR	URC/Learn
7	VOL -	TV URC	IR	URC/Learn
8	CH -	CAB URC	IR	Fixed
9	BRAND	mFC STB	BLE	Fixed
10	TV	mFC STB	BLE	Fixed
11	TALK	mFC STB	BT Classic	Fixed
12	POWER	TV URC	IR	URC/Learn

6. Feedback LED Behavior

- 1) OK LED : ON during any press of OK button and used as feedback LED
- 2) TV LED : ON during any press of TV button
- 3) BRAND LED : ON during any press of BRAND button
- 4) TALK LED : ON when pressed to enter TALK mode. OFF when pressed again to exit TALK mode.
- 5) POWER LED : ON during any press of POWER button
- 6) PAIRING LED : Turn on after Pairing Button is pressed. After Pairing is Completed and then Turns OFF.

7. To program the TV URC Library

- 1) Press and Hold Left and POWER for 3 seconds
- 2) Feedback LED will turn ON
- 3) Select the brand code from the brand list and enter it using the pre-defined number values in the table below.
- 4) The feedback LED will blink each time a button is pressed and will turn OFF and the remote will exit program mode.
If a valid code is entered, the remote will send the TV Volume up command and the LED blink 3 times and then exit out of programming mode.
If an invalid code is entered or the remote times out after 5 seconds, the LED will blink 5 times and exit out of programming mode

8. To program the CAB URC Library

- 1) Press and Hold Right and POWER for 3 seconds.
- 2) The feedback LED will turn ON
- 3) Select the brand code from the brand list and enter it using the pre-defined number values in the table below
- 4) The feedback LED will blink each time a button is pressed and will turn OFF and the remote will exit program mode
If a valid code is entered, the remote will send the STB Channel up command and the LED blink 3 times and then exit out of programming mode.
If an invalid code is entered or the remote times out after 5 seconds, the LED will blink 5 times and exit out of programming mode

9. To learn an IR code

- 1) Press and Hold UP and POWER for 3 seconds
- 2) The feedback LED will blinking continuously
- 3) Press the button on the GCR remote to learn the command from the original remote and the LED will turn on
- 4) Point the original remote control the front of the GCR remote control and press the button to be taught to the GCR
- 5) The feedback LED will blink three times if the code is learned successfully and exit out of learning mode
- 6) The GCR will blink 5 times if the code is not learned successfully
- 7) Continue steps 1 through 5 until all codes are learned correctly

10. To pair remote to STB (Remote to be paired with STB at Factory)

- 1) Press OK button on remote control.
- 2) Pairing(OK) LED will turn on until paired with STB.
- 3) The remote will be paired with BLE device of the STB.
- 4) If the BLE device is paired of the STB, it will automatically will be paired with the BT device again.
- 5) The TALK LED will turn on when paired with two devices.
- 6) Press the TALK button, The TALK LED will turn off and exit out of pairing mode.

*. Pairing Reset

- 1) Press and Hold POWER and DOWN for 3 seconds and OK LEDs will blinks three times and turn-off.
- 2) The RCU will reset the paired information of the STB.

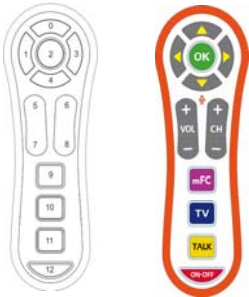
11. To use Talk Mode (Voice Command)

- 1) Press and Release TALK button.
- 2) TALK button LED will turn ON and remain ON.
- 3) Remote will transmit Audio information from MIC to STB through Bluetooth Classic using Hands Free Profile.
- 4a) Press and release TALK button to exit Talk Mode.
- 4b) STB sends STOP command to Remote. (Alternative - Remote will timeout when no longer receiving data from STB)
- 5) TALK button LED will turn OFF and remote will switch to BLE for control of STB.

12. RCU reset mode

- 1) Press and Hold OK and BRAND button for 3 seconds and all of the LEDs will blinks three times and turn-off.
- 2) The RCU will reset all information and return to the factory default.

13. Image and Key Number Layout



14. FCC Statement

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.

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.

FCC Caution

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

FCC Radiation Exposure Statement

This equipment must not be co-located or operating in conjunction with any other antenna or transmitter except those has been evaluated to comply with FCC requirements.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

15. IC Notice

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.

This radio transmitter 26009-MFCBTR01 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

This device complies with the safety requirements for RF exposure in accordance with RSS-102 Issue 5 for portable use conditions.

Le présent appareil est conforme aux CNR d'Industrie 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'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Le présent émetteur radio 26009-MFCBTR01 a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué pour tout type figurant sur la liste, sont strictement interdits pour l'exploitation de l'émetteur.

Cet appareil est conforme aux exigences de sécurité concernant l'exposition aux RF selon la norme RSS-102, 5ème édition, pour des conditions d'utilisation portable.

Antenna Information

Antenna name : CC2480
Frequency : 2.4GHz ISM Band
Impedance : 50 (Ω)
Gain(dBi) : 3.3 dBi
Connector Type : PCB

Informations sur l'antenne

Nom de l'antenne: CC2480
fréquence : 2.4GHz ISM Band
Impédance: 50 (Ω)
Gain (dBi): 3.3 dBi
Type de connecteur: PCB