



Picture for reference only

## User Manual

### LGI Babylon RCU RC421(Telink8273)

## **1. Products Functions**

The RC421 remote connects via Radio Frequency for Consumer Electronics(RF4CE) or Bluetooth Low Energy (BLE) to LGI set-top box, which has Nuance voice enabled. This connection is needed to control all essential features that LGI offers, including browsing content, playing videos, and conducting voice searches. RF4CE/BLE are also used for over-the-air firmware upgrades as well as the download of TV control codes.

The remote further includes infrared (IR), used for the one-time initiation of the BLE connection, as well as volume and power control of third-party non-Bluetooth TVs.

## **2. Product Summary**

- Include 38 Keys (RC4213802) and 34 Keys (RC4213404, RC4213405 & RC4213406 remotes;
- Bi-colour (Red/White) LED Indicator;

### 3. BLE keycode table for STB

- 38 Keys remote:

1 TV Power TV IR		2 STB Power (0x0C, 0x30)	
	3 Home (0x0C, 0x223)		34 Profile (0x0C, 0x18D)
4 EPG (0x0C, 0x8D)	6 Up (0x0C, 0x42)	5 Live TV (0x0C, 0x89)	
7 Left (0x0C, 0x44)	8 OK (0x0C, 0x41)	9 Right (0x0C, 0x45)	
11 Back (0x0C, 0x224)	10 Down (0x0C, 0x43)	12 Context (0x01, 0x84)	
14 Vol Up TV IR Only	13 Voice (0x0C, 0x221)	16 Ch Up (0x0C, 0x9C)	
15 Vol Down TV IR Only	18 Record (0x0C, 0xB2)	17 Ch Down (0x0C, 0x9D)	
19 Rewind (0x0C, 0xB4)	20 Play/Pause (0x0C, 0xCD)	21 Fast Forward (0x0C, 0xB3)	
22 1 (0x07, 0x1E)	23 2 (0x07, 0x1F)	24 3 (0x07, 0x20)	
25 4 (0x07, 0x21)	26 5 (0x07, 0x22)	27 6 (0x07, 0x23)	
28 7 (0x07, 0x24)	29 8 (0x07, 0x25)	30 9 (0x07, 0x26)	
32 Mute TV IR Only	31 0 (0x07, 0x27)	33 Input TV IR Only	
35 Red (0x07, 0x3A)	36 Green (0x07, 0x3B)	37 Yellow (0x07, 0x3C)	38 Blue (0x07, 0x3D)

- 34 keys remotes:

1 TV Power TV IR		2 STB Power (0x0C, 0x30)	
	3 Home (0x0C, 0x223)		34 Profile (0x0C, 0x18D)
4 EPG (0x0C, 0x8D)	6 Up (0x0C, 0x42)	5 Live TV (0x0C, 0x89)	
7 Left (0x0C, 0x44)	8 OK (0x0C, 0x41)	9 Right (0x0C, 0x45)	
11 Back (0x0C, 0x224)	10 Down (0x0C, 0x43)	12 Context (0x01, 0x84)	
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25 4 (0x07, 0x21)	26 5 (0x07, 0x22)	27 6 (0x07, 0x23)	
28 7 (0x07, 0x24)	29 8 (0x07, 0x25)	30 9 (0x07, 0x26)	
32 Mute TV IR Only	31 0 (0x07, 0x27)	33 Input TV IR Only	

#### **4. BLE/RF4CE Pairing mechanism**

When remote unpaired, pressing any RF key (keys exclude <Vol +>, <Vol ->, <Mute> ,<TVPower> and <Input>), remote will enter pairing mode.

- 4.1) Remote sends advertising (Both RF4CE and BLE) for pairing. LED perform pairing blink continuously;
- 4.2) If pairing is successful, LED will stop blink;
- 4.3) If pairing is failed, LED will provide a pairing fail blink.

#### **5. Voice**

The RCU supports one-way voice transferred from RCU to host.

When voice key is pressed down, voice key code is sent to STB to call out voice search engine on host.

#### **6. OTA upgrade**

The RCU software supports upgrade via OTA (Over-The-Air).

#### **7. Compliance Statement**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

#### **8. Caution:**

- Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- Risk of explosion if batteries are replaced by an incorrect type. Only use AAA alkaline batteries.

#### **9. FCC information:**

FCC ID:2AGOFRC421B

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.

## **RF exposure statement**

This equipment complies with the FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

NOTE 1: 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.