

BV KITA Android Platform 2019 Quick Reference Guide



Part number: R324854A98-00001

ACTIVATING RF

Pairing State

The KITA RCU shall support both IR and BLE command codes for each key. The default operating mode when supplied and batteries are fitted is explained in the following section.

Programming Name	Trigger
PAIRING_COMBO	'Key 9 (OK)' and 'Key 12 (Home)' keys pressed simultaneously and held down for 2s
UNPAIR_COMBO	'Key 13 (CH +)' and 'Key 17 (VOL -)' and keys pressed simultaneously and held down for 3s

Table 8.1 4. Pair and un-pair combos

Pairing Scenario (Guided by the STB installation screens)

The KITA RCU shall implement the pairing scenario shown in Figure 8.1. The Figure 8.1 is simply for a reference to show various scenarios but it does not capture all possible events.

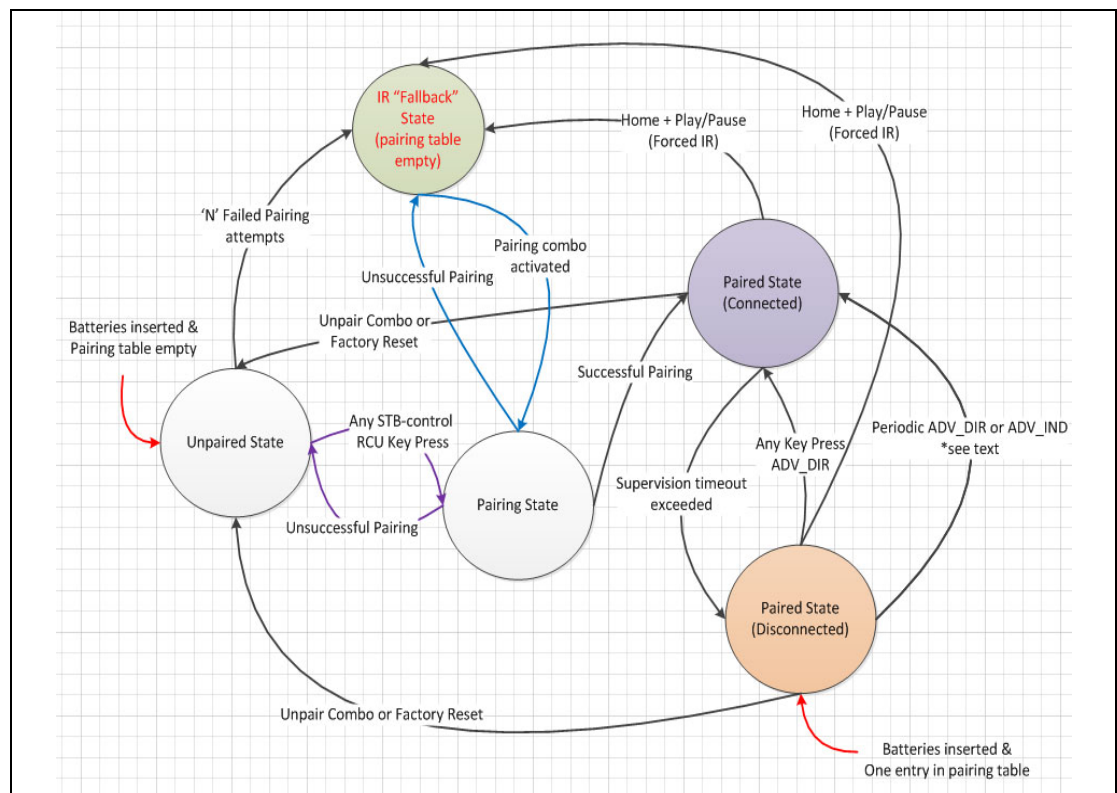


Figure 8.1. Pairing state diagram for KITA

In this scenario the RCU shall start advertising on any key press¹ (including standby key short press) after RCU is powered on. The RCU shall advertise for PAIR_ADV_DURATION and then time out and

¹ Keys that do not have a Universal function. Universal keys are 'standby long-press', 'mute', 'volume' and 'input select'

stop advertising. The RCU shall repeat the advertising and timeout sequence for ‘N’ loops before entering the IR fallback state and behaving like an IR RCU. (The “N” loop shall be defined as a custom RTC parameters that can be configurable for a platform and future projects). Once in IR fallback the end-user is required to activate pairing using a combo.

Note that ads are sent from the RCU periodically when the RCU is disconnected. This is to facilitate reconnection to the STB with no user intervention. The primary use-case is to enable the RCU firmware to be updated during the night.

Features:

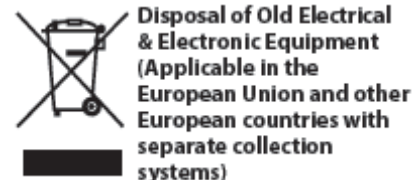
- BLE design with UE878
- 30 keys (Standard HID over GATT profile as defined by Android)
- Voice (Android-defined GATT service) at 8KHz and 16kHz sampling (Google Voice implementation version 0.4e by the host)
- Adaptive backlight for contextual user feedback and control
- Universal IR for basic TV commands
- IR fallback operation for all dedicated keys
- QuickSet for automatic and manual setup
- OTA updates, supporting the background OTA feature
- Battery Type: 3.27V nominal rechargeable Lithium Polymer battery pack
- Operating Temperature
 - o 0°C to +50°C

Caution

Please read these safety instructions to ensure your personal safety and prevent damage to equipment.

Warning

- Do not put remote in a fire
- Do not disassemble the remote control
- Disposal of the remote control



- **battery** shall not be exposed to excessive heat such as sunshine, fire or the like
- Disposal of a **battery** into fire or a hot oven, or mechanically crushing or cutting of a **battery**, that can result in an **explosion**
- Leaving a **battery** in an extremely high temperature surrounding environment that can result in an **explosion** or the leakage of flammable liquid or gas
- A **battery** subjected to extremely low air pressure that may result in an **explosion** or the leakage of flammable liquid or gas

Important Safety Instructions

1. Read these instructions
2. Keep these instructions
3. Head all warnings
4. Follow all instructions

COMPLIANCE WITH FCC RULES AND REGULATIONS

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 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, 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 or decrease 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 remote control/ TV technician for help.

This equipment has been verified to comply with the limits for a Class B computing device, pursuant to FCC Rules. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

FCC Authorization Label

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.
- 2 This device must accept any interference received, including interference that may cause undesired operation.

FCC ID: MG3-R324854

COMPLIANCE WITH FRENCH CANADIAN RULES AND REGULATIONS:

This device contains license-exempt transmitter(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.

Cet appareil contient des émetteurs exemptés de licence qui sont conformes aux RSS exempts de licence d'Innovation, Sciences et Développement économique Canada. Son fonctionnement est soumis aux deux conditions suivantes:

1. Cet appareil ne doit pas provoquer d'interférences
2. Cet appareil doit accepter toute interférence, y compris les interférences pouvant entraîner un fonctionnement indésirable de l'appareil.

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MN: R324854