



VIZIO, BLE RCU Engineering Reference Manual

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MAY 10, 2024

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Revision History

Version	Date	Originator	Change Description
0.1	2019.12.17	Thomas	Initial

Feature

- 1.1 Remote control controls TV(Set-top box, Smart TV, etc).
- 1.2 It use BLE [Bluetooth Low Energy] 4.2
- 1.3 Using Profile : HOGP(HID Over GATT Profile)
- 1.4 Device name: XRT270vXXX(The last four digits of the version.)
- 1.5 Frequency range: 2.402GHz ~ 2.480GHz
- 1.6 Voltage of Operating: 2.2V ~ 3.2V
- 1.7 Type of modulation: GFSK(Gaussian Frequency Shift Keying)
- 1.8 Channel spacing: 2MHz (40 channel)
- 1.9 Duty cycle: Very low duty cycle
- 1.10 Simplex/duplex: Full duplex
- 1.11 Declared (RF) interface on which the apparatus is intended to operate: BLE
- 1.12 ITU code

2 BLE Key Code Table



No	Key Name	IR code	Key Code
1	INPUT	0x2F	0x2F (07)
2	POWER	0x08	0x66 (07)
3	Sling	0x64	0xC1 (07)
4	Netflix	0xEB	0xEB (07)
5	Prime Video	0xEA	0xEA (07)
6	Disney	0x1F	0x69 (07)
7	iHeart	0xEE	0x6E (07)
8	XumoPlay	0x6F	0x6F (07)
9	MIC	0x40	0xF0 (07)
10	WATCH FREE	0xF7	0xF7 (07)
11	SETUP	0x4F	0x41 (07)
12	▲ (UP)	0x45	0x52 (07)
13	▼ (DOWN)	0x46	0x51 (07)
14	◀ (LEFT)	0x47	0x50 (07)
15	▶ (RIGHT)	0x48	0x4F (07)
16	OK	0x44	0x28 (07)
17	BACK	0x4A	0x29 (07)
18	HOME	0x2D	0x4A (07)
19	★	0x62	0xC0 (07)
20	VOL -+	0x03	0x81 (07)
21	VOL +	0x02	0x80 (07)
22	MUTE	0x09	0x7F (07)

3 BLE Pairing Process

- Remote control automatically goes into pairing mode when batteries are inserted into a remote which is not currently paired

3.1 Press and hold [MIC] key and [MUTE] key for 5secs

4 Factory default setting (un-pairing)

4.1 Press and hold [INPUT] key and [MUTE] key for 5secs