



**VIZIO,
Remote control XRT281
Engineering Reference Manual**

Contents

1	FEATURE	3
2	BLE KEY CODE TABLE	4
3	BLE PAIRING PROCESS.....	5

Revision History

Version	Date	Originator	Change Description
0.1	2025.03.24	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: XRT281vXXX(The last four digits of the version.)
- 1.5 Frequency range: 2.402GHz ~ 2.480GHz
- 1.6 RF output power: 3.1dBm (MAX 4dBm)
- 1.7 Voltage of Operating: 2.2V ~ 3.2V
- 1.8 Type of modulation: GFSK(Gaussian Frequency Shift Keying)
- 1.9 Channel spacing: 2MHz (40 channel)
- 1.10 Duty cycle: Very low duty cycle
- 1.11 Simplex/duplex: Full duplex
- 1.12 Declared (RF) interface on which the apparatus is intended to operate: BLE
- 1.13 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	Disney+	0x1F	0x69 (07)
4	Netflix	0xEB	0xEB (07)
5	Prime Video	0xEA	0xEA (07)
6	Paramount+	0x73	0x73(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

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.

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

Note: 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 Radiation Exposure statement

The device has been evaluatec to mee general RF exposure requirement. The device can be used in portable exposure condition without restriction.