

# FBXCSRPT01 – 02 : Wireless repeater (booster)

## Technical specification



### Model:

Normal repeater: model FBXCSRPT01 (without antenna), range enhancement 20-30 meters indoors (80-100m outdoors in open line of sight)

High power repeater: model FBXRPT02 (with antenna), range enhancement 50-60 meters indoors (150-200m outdoors in open line of sight)

### Precautions and mounting locations:

Mounted on the top of door / wall

- Easy mounting with 4 screws to secure it tightly
- IP65 enclosure unit, robust and weatherproof
- For indoor purpose use only
- Keep away from metallic enclosures

### Wall mount calling unit:

Size: 150 x 100 x 35 mm

Weight: 230gms

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**Model: FBXCSRPT01 ,FBXCSRPT02**

### Wireless signal repeater (booster)

#### Features:

- Captures signals from the remote controllers
- Forward the signal in air by increasing the SNR (signal to noise ratio), thereby increasing the range of communication
- Increases the link budget by a factor of +125 dbm
- Indicator on the repeater unit to check for signal reception and forwarding, thereby ease in installation
- Every repeater adds up to a propagation delay of 1-2 secs

#### Repeater / booster:

This unit is used to enhance the range of communication. The repeater has a receiving and transmitting unit at its core. It collects the feeble radio signals from the remote control. And then forwards it in the air. It is possible to have multiple repeater units in a building / floor.

Normal repeater: additional 20-30 meters (indoors)

High power repeater: additional 50-60 meters (indoors)

#### Operating voltage: (12V)

110-220VAC/50-60Hz to 12VDC converter adapter supplied.

Unit can also be plugged to any 12V external battery. Active working hours depends on the battery power

#### Technical details :

Operating frequency: 380 – 480 MHz

System works on signal hop mechanism. Reception happens at more than 12-15 predefined frequencies

Modulation type: GFSK

Radio IC: CC1100 (Chipcon/TI) and equivalents in sub-GHz freq.

Receiver sensitivity: – 112 dbm

PA: +10dbm

#### Application and features:

- Increases the range of communication within a floor or even for multiple floors
- It is recommended for 1 repeater every 10 remotes
- High power repeaters for multiple floor signaling