



[Enclosure design may vary depending on customized orders and production batches]

Model: **FBX7RPT03** Long range repeater unit acts as bridge between transmitter and receiver unit to increase range.

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The repeater capture feeble signals from transmitter and forwards it in the air to the receiver (by increasing the SNR signal to noise ration). This improves (doubles the range) of communication. The repeater signal booster design contains an inbuilt receiver and transmitter.



FBX7RPR03, wireless long range repeater signal booster

Long range repeater with metallic enclosure

Features:

- 1-port long range wireless repeater unit (in metallic enclosure)
- 1 indicator RED light in the front (signal receive status)
- 1 indicator BLUE light in the front (signal transmit status)
- Every set of packet received, signals retransmit for 20-40 (configurable) times
- Long range (1-meter) wire / rubber duck antenna (+3dbi)
- Compatible with high power transmitters FBX7xx series

Technical details:

- Receiver sensitivity: – 112 dbm
- Transmitter power amplification (PA): +28dbm
- Operating frequency: 315 – 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.
- Data packet error correction mechanism: FEC

Wiring (diagram coding)

Power supply DC jack 12VDC
110-220VAC/50-60Hz to 12VDC adapter converter

Signal reception:

Once the repeater is active, the device makes sure to re-transmit the signal 20-50 times more number of times (as that of the transmitter). Along with improved SNR (signal to noise ration)

Application and features:

- Panic alarm in buildings (in case of emergency)
- Alarm displays for security / gated community
- Alarms for airports, sea harbors, railways, factories and defence forces

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/outdoor purposes
- Keep away from metallic surroundings

Wall mount calling unit:

- Transmitter enclosure type: IP 65 (color grey)
- Size: 250 x 90 x 45 mm
- Outside body: metal enclosure
- Metallic enclosure unit: :280 x 230 x 75mm
- Metallic enclosure weight: 1500 gms

Operating voltage:

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.

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