



Long range repeater

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Specifications

Model: FBX7RPT03

Parameters	Specifications
Model	Wireless long range repeater booster FBX7RPT03
Enclosure type	IP 65 (color grey)
Operating Voltage	12 VDC (110V-220VDC to 12VDC converter adapter)
Indicators at the transmitter unit	Power supply – Yellow Signal – RED SYNC – Synchronizing signal from transmitter
Dimensions	Transmitter enclosure: 250 x 90 x 45 mm
How the repeater operates	When signals from the transmitter reaches the repeater, it first of all locks itself to the set of operating frequencies. Then the repeater records the signals and finally forward the same signal (data packets) to the receiver. This mechanism helps increase the range of communication between the transmitter and the receiver. It is possible to install multiple (more than one) repeater in between the transmitter and the receiver unit. The range of communication of the unit is around 2-3 kms in open line of sight.
Technical details	+20dBm (100mW) constant RF output +14dbm high efficiency PA for the transmitter 168 dbm is the maximum link budget Operating voltage of the transmitter: 12VDC Operating temperature: 25 °C Operating frequency: 380-480MHz CRC on data payload: Enabled Packet Error Rate: PER (1%) Redundancy packet feature: Enabled fOsc = 32MHz Radio IC used CC1100 (from Texas Instruments) [Sub-GHz frequency]
Applications	<ul style="list-style-type: none"> • Places for long range alarm systems viz. defence and border security forces and army • Community panic alarm systems for far away houses to alert security room • Signaling for motor pump operation, siren alarms, potential free contactors or even traffic lights in distant location

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