

1.0 EUT DESCRIPTION

1.1 CONFIGURATION

| | Name | Model | Revision | Serial Number |
|--|---|--|----------|---------------|
| EUT | 1323X-MRB 1323X-RCM 1323X-REM | 1323X-RCB (MRB+RCM) 1323X-REB (MRB+REM) | E4 | N/A |
| Power Supply | Sceptre | PXX5020AWPLUSB/S3 | N/A | N/A |
| Device Classification | Mobile | | | |
| Antenna | Integral (5dBi) | | | |
| Modulation | O-QPSK | | | |
| EUT Size with Enclosure (H x W x D) (in mm) | 1323X-MRB (18.1 x 66.5 x 51); 1323X-RCB (47.1 x 93 x 208.75); 1323X-REB (45.6 x 78.7 x 117.9) | | | |
| EUT Weight (in grams) | 1323X-MRB (13.05gr); 1323X-RCB (146.15gr); 1323X-REB (56.2gr) | | | |
| Channels/Frequency Range | 16 Channels, 2405 MHz – 2480 MHz | | | |
| Functional Description | <p>The application boards included in the kits (RCM, REM, and MRB) are intended as developer boards for OEM's. The purpose is to aid OEM's in evaluation and development in order to incorporate the MC1323x ZigBee radio chip into their products. The primary end use is with the integral antenna. The external SMA connector is for OEM's to verify RF performance. The embedded software, which is loaded onto the MC1323X radio chip mounted onto the MRB, limits the maximum power across all frequencies. The RF circuitry is limited to the MRB. The RCM and REM are the two mother boards that the MRB will work with. The RCM has a two line display, a touchpad, a button array, an accelerometer and a buzzer, whereas the REM has a two row button array only. Both boards can be controlled via USB and powered by USB, batteries or external supply.</p> <p>The MC1323x chip contains an RF transceiver which is an 802.15.4 Standard - 2006 compliant radio that operates in the 2.4 GHz ISM frequency band. The transceiver includes a low noise amplifier, 1mW nominal output power amplifier (PA), internal voltage controlled oscillator (VCO), integrated transmit/receive switch, on-board power supply regulation, and full spread-spectrum encoding and decoding. This family of products is targeted for wireless RF remote control and other cost-sensitive applications ranging from home TV and entertainment systems such as ZigBee BeeStack Consumer (RF4CE) to low cost, low power, IEEE 802.15.4 and ZigBee end nodes.</p> | | | |

1.1.1 EUT POWERS

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|------------------------|---|
| Voltage | 2.5 VDC Battery, 5 VDC USB, 120/240 VAC 60/50 Hz with Sceptre Power Supply Model <u>PXX5020AWPLUSB/S3</u> |
| Number of Feeds | 1 (1 Hot, 1 Return) |