

Theory of Operation

The major components of the CX2200 transceiver assembly include the CM2200 transceiver module and the CI2200 interface module. The CM2200 includes a TR1000 ASH transceiver and a Microchip 16LF876A microcontroller. The TR1000 operates on a frequency of 916.5 MHz, at a nominal output power of 0.5 mW. The CM2200 includes an insulated wire antenna, which should be set straight and perpendicular to the CM2200 circuit board. The CM2200 also includes three LEDs that indicate the transceiver's operating modes.

The CI2200 provides a choice of RS232 or USB to interface to a host computer. USB drivers for various host computer operating systems can be obtained at www.silabs.com (CP2101). The CI2200 also provides regulated 3 Vdc for operating its circuitry and the CM2200 transceiver module. The positions of the set-up jumper blocks for RS232 operation are shown in Figure 2, and the positions of the set-up jumper blocks for USB operation are shown in Figure 3. RS232 operation requires external power, which is input on connector J4. The CX2200 is powered directly from the USB connector when using the USB interface. There are two LEDs on the CI2200 interface

module. LED D1 indicates that regulated 3 Vdc is present, and the LED D2 indicates an active USB connection.

The CX2200 is compatible with RFM's miniMESH™ network protocol, which provides add-on "plug-and-play" multicast mesh network routing to improve communication range and robustness.

FCC Labels and Notices

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.

A clearly visible label is required on the outside of the user's (OEM) enclosure stating that this product contains a CX2200 transceiver assembly, FCC ID: TE6-CX2200.

WARNING: This device operates under Part 15 of the FCC rules. Any modification to this device, not expressly authorized by RF Monolithics, Inc., may void the user's authority to operate this device.