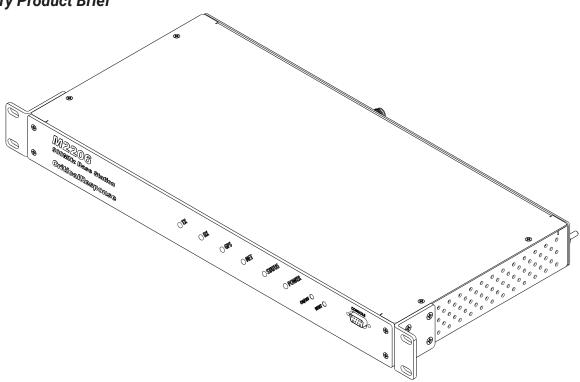


**Preliminary Product Brief** 



## Overview

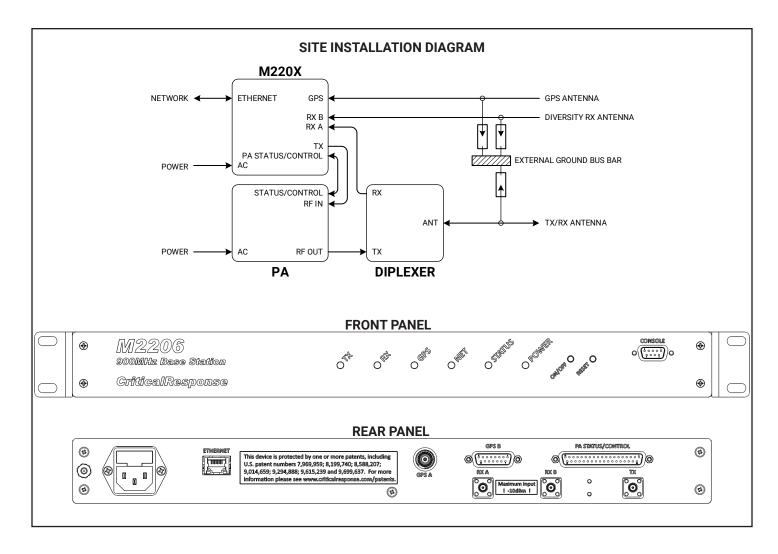
The M2205 Base Transceiver (BX) accepts BXI connections from an iocast Control Stack and provides one forward channel and one reverse channel of RF coverage. It integrates one single-channel transmitter and one single-channel receiver, as well as a GPS disciplined oscillator, CPU, DSP, and Ethernet interface.

The M2205 can operate stand-alone, as a low-power indoor unit, or it can be coupled with an external power amplifier for long-range applications. Its 1RU package, 8" depth, light weight, and energy efficiency enable it to fit neatly into tabletop, wall-mount, rack-mount, and pole-mount positions.

For mission-critical IoT, the M2205 delivers high value and mission-critical reliability to locast networks in urban, rural, and industrial environments.

# **Benefits**

- Single-Channel Receiver with Dual Micro-Diversity
- · Single-Channel Transmitter
- · Small, Light, and Energy Efficient
- 10-30 Mile Coverage Radius (with External PA)
- Operates With or Without an External PA
- Real-time Monitoring of Forward and Reflected Power
- Real-time Monitoring of Receive Noise Floor



### **Transmitter**

Frequency Range: 851 to 860MHz

Emissions: 7K60FXD

Transmission Mask: Parts 22, 24(D), 90, and 101 Power: Variable, +19dBm to +24dBm (at port)

RF Output Port:  $50\Omega$  SMA female PA Status/Control Port: DB37 Female

## **Diversity Receiver**

Frequency: 806 to 815MHz

Selectivity 40dBc @ ±12.5KHz, Typical

Sensitivity: -126dBm

RF Input Port: 2x 50Ω SMA female

# Oscillator

Accuracy: 10ppb

GPS Port A: 50Ω TNC Female GPS Port B: DB15 Female

### **CPU**

CPU: Intel E3930 DSP: Artix-7 Ethernet: RJ45 Console: DB9 Female

#### **IP Interface**

Host: BXI v3

Management: SNMP v3, SSH

#### **Physical**

Dimensions: 19" × 1.75" × 8"

Weight: 6lbs

Mounting: 1U 19" EIA rack space

### **Electrical**

Voltage: 90 to 264VAC Frequency: 50Hz or 60Hz Power Used: 35 to 50W Connector: IEC320-C14 Ground: #8 threaded stud

## **Environmental**

Operating Temperature: -30°C to +50°C Storage Temperature: -40°C to +85°C Humidity: 5% to 95% non-condensing Altitude: 10,000 feet maximum