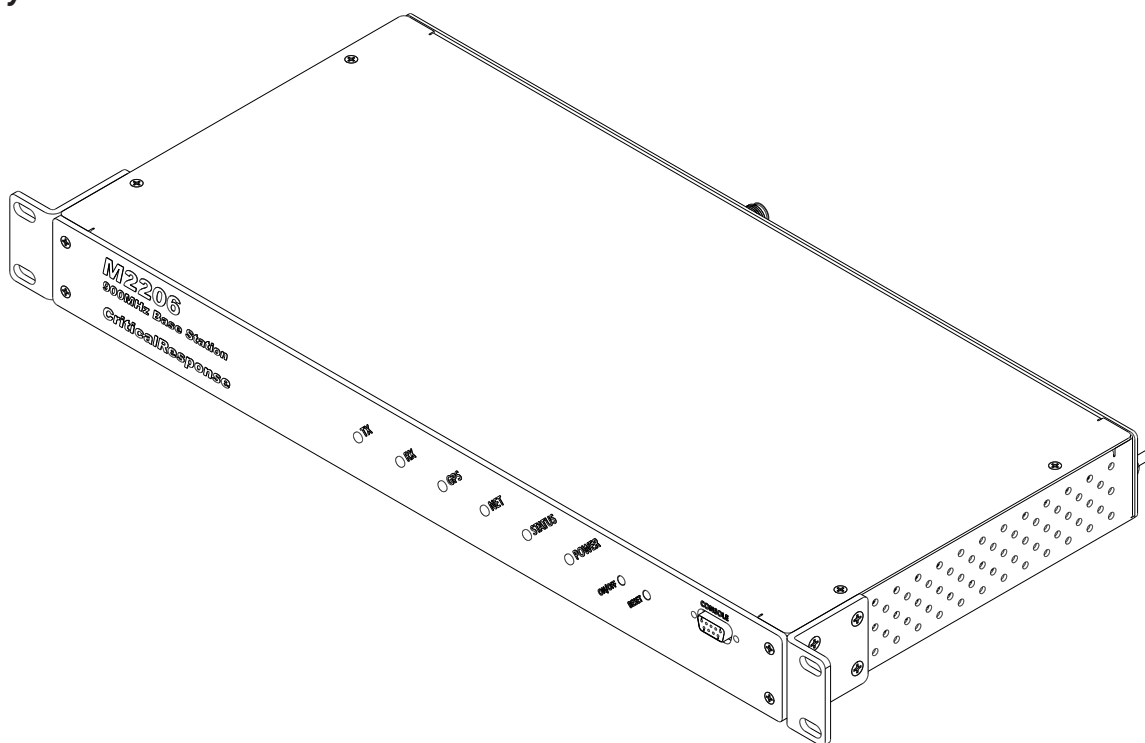


M2206

900MHz Base Transceiver

Preliminary Product Brief



Overview

The **M2206 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.

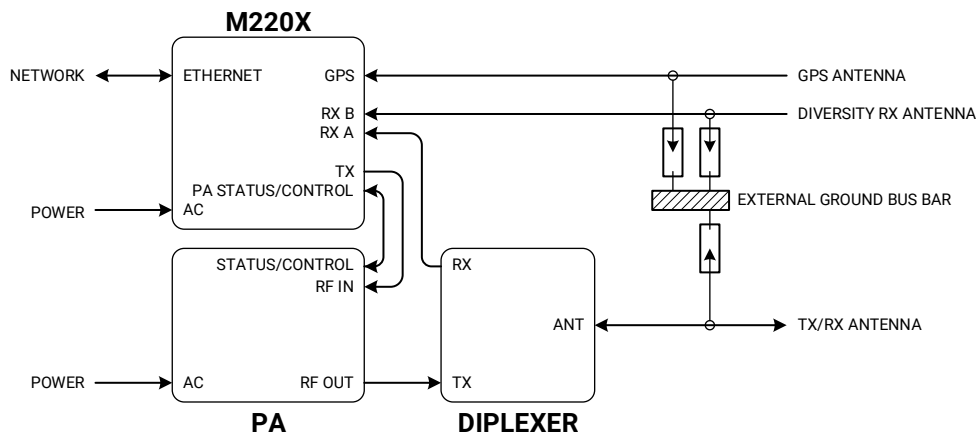
The M2206 can operate stand-alone, as a low-power indoor unit, or it can be coupled with an external power amplifier for long-range applications. Its 1RU package, 8" depth, light weight, and energy efficiency enable it to fit neatly into tabletop, wall-mount, rack-mount, and pole-mount positions.

For mission-critical IoT, the M2206 delivers high value and mission-critical reliability to iocast 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

SITE INSTALLATION DIAGRAM



FRONT PANEL



REAR PANEL



Transmitter

Frequency Range: 929 to 942MHz
 Emissions: 7K60FXD
 Transmission Mask: Parts 22, 24(D), 90, and 101
 Power: Variable, +19dBm to +24dBm (at port)
 RF Output Port: 50Ω SMA female
 PA Status/Control Port: DB37 Female

Diversity Receiver

Frequency: 896 to 902MHz
 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: BXL 1.9
 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

CriticalResponse