

2 SPECIFICATIONS

General Specifications²

Duty Cycle (EIA): Continuous:

Operating Temperature:

Humidity (EIA):

Power Supplies:

Input Power Source:

Power Supply Outputs: +28.0 VDC \pm 0.2V;
+12.0 VDC \pm 0.2V;
+5.0 VDC \pm 0.2V;

Source Power Drain:

Input Power Efficiency:

Altitude:

Operational:

Shippable:

Transmitter Specifications

Frequency Ranges:

RMS RF Output Power⁶:

RF Output Impedance:

Antenna Connection:

Power control accuracy:

Frequency Stability:

Frequency Step Size:

Tuning Range:

Nominal TX Deviation:

Modes of Modulation:

P25 Phase 1

P25 Linear Simulcast

P25 Phase 2

Modulation Emission Spectrum:

Radiated and Conducted Spurious Emissions:

Transmit and Receive at 100%

-22°F to +140°F (-30°C to +60°C)

90-95% at 122°F (50°C) Non-condensing

AC Supply (EA-555011-001)

90 – 240 VAC (nom.), 47–63 Hz

25.0 Amps

2.8 Amps

28.0 Amps

865 watts per channel (max.), 600 watts per channel (typical)

> 85% at full load, > 82.5% at full Load

Up to 13,123 ft. (4,000 m)

Up to 50,000 ft. (15,250 m)

150 – 174 MHz³

380 – 400 MHz⁴

403 – 430 MHz^{3, 5}

450 – 470 MHz

470 – 494 MHz

10 – 100 Watts

50 ohms

Type N Female on High Power Amplifier

-0/+0.79 dB

< 0.1 ppm external freq. std.⁷

6.25 kHz

No tuning required

2.544 to 3.111 kHz (per TIA-102)

MODULATION TYPE

C4FM

WCQPSK

HDQPSK

Per FCC Part 90

700/800/900 MHz Stations: < -70 dBc

VHF/UHF Stations: < -36 dBm (below 1 GHz), < -30 dBm (above 1 GHz)

DC Supply (EA-555011-003)

-48VDC (+/- 20%), 25.0 Amp

25.0 Amps

5.0 Amps

15.0 Amps

² Specifications listed herein are applicable only to Harris' MASTR V Base Station RF equipment. Always refer to the manufacturer of third party equipment, such as Routers and Switches, for additional specifications. Specifications listed in this manual are intended primarily for the use of the service technician. Additional specifications may be listed on the product data sheet.

³ 150 – 174 MHz and 420 – 430 MHz bands have been approved for use in FCC Part 22 and Part 80 applications.

⁴ This device is available within the NTIA marketplace.

⁵ 406.1 – 420 MHz is available in the NTIA market place.

⁶ Rated power output is measured at the transmitter's power amplifier output connector. Optional items such as power measuring devices and/or duplexers will introduce loss between the transmitter output connector and the station cabinet output connector. This loss will reduce the available power at the station connector. It is the responsibility of the license holder to ensure that rated power is 50 W at the output connector for Part 80 applications.

⁷ Beginning with Baseband Processor Rev. D, an external reference is no longer required to meet this specification.

Mastr Iii Service Manual

JG Myers



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web equilibrium the rate of the forward reaction and the rate of the reverse reaction are equal at equilibrium both reactants and products are present some reaction mixtures contain mostly reactants and form only a few products at equilibrium some reaction mixtures contain mostly products and remain mostly reactants at equilibrium

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web chemical equilibrium part 1 forward and reverse reactions understanding the concept of chemical equilibrium is critical to following several of the discussions that we have in bis2a and indeed throughout biology and the sciences