

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

Xiaolong Qi



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Table of Contents Mastr Iii Service Manual

1. Understanding the eBook Mastr Iii Service Manual
 - The Rise of Digital Reading Mastr Iii Service Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Mastr Iii Service Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mastr Iii Service Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mastr Iii Service Manual
 - Personalized Recommendations

- Mastr Iii Service Manual User Reviews and Ratings
- Mastr Iii Service Manual and Bestseller Lists
- 5. Accessing Mastr Iii Service Manual Free and Paid eBooks
 - Mastr Iii Service Manual Public Domain eBooks
 - Mastr Iii Service Manual eBook Subscription Services
 - Mastr Iii Service Manual Budget-Friendly Options
- 6. Navigating Mastr Iii Service Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Mastr Iii Service Manual Compatibility with Devices
 - Mastr Iii Service Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mastr Iii Service Manual
 - Highlighting and Note-Taking Mastr Iii Service Manual
 - Interactive Elements Mastr Iii Service Manual
- 8. Staying Engaged with Mastr Iii Service Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mastr Iii Service Manual
- 9. Balancing eBooks and Physical Books Mastr Iii Service Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mastr Iii Service Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mastr Iii Service Manual
 - Setting Reading Goals Mastr Iii Service Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mastr Iii Service Manual
 - Fact-Checking eBook Content of Mastr Iii Service Manual

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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