



# MAGNUM 257

50W FM/SSB/AM 10 Meter Mobile Transceiver



- Microprocessor Controlled Transceiver
- 28.000 to 29.699 MHz Frequency Range
- 50 Watts RF Output Power
- Variable Power - In All Modes
- FM / USB / LSB / AM
- 1 kHz / 10 kHz / 100 kHz Steps
- 5 Digit Frequency Display
- ECM Microphone with Up and Down Frequency Controls
- 5 Memory Channels - Saves Both Frequency and Mode
- Back Lit LCD Display and Front Panel Controls
- Digital S/RF Meter on LCD
- RF Gain and Microphone Gain Controls
- +/- 1 kHz Clarifier
- Noise Blanker and Automatic Noise Limiter
- Frequency Scan
- Last Channel Recall - Returns to Last Operated Frequency and Mode
- Split Frequency Offset for Repeater Use
- Receive Audio Tone Control
- MARS / CAP Compatible (Permits Required)
- 1 Year Warranty
- Extended Service Contracts Available

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[www.MagnumRadio.com](http://www.MagnumRadio.com)

## General Specifications

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Frequency Coverage        | : Transmit and Receive..... 28.000 - 29.699 MHz            |
| Modes                     | : FM / USB / LSB / AM                                      |
| Number of Memory Channels | : 5                                                        |
| Antenna Impedance         | : 50 ohm, unbalanced                                       |
| Clarifier Range           | : +/- 1 kHz                                                |
| Operating Temperature     | : -10 °C to +60 °C                                         |
| Frequency Control         | : Digital Phase-Lock Loop (PLL) Synthesizer                |
| Frequency Accuracy        | : Better than +10 ppm from 0 - 40 °C after 15 min. warm up |
| Power Requirement         | : 12 - 13.8 V DC, negative ground                          |
| Dimensions (W x H x D)    | : 152 x 52 x 222 mm (6 x 2 x 8.75 in)                      |
| Weight                    | : 1.3 kg (2.9 lbs)                                         |

## Transmitter Specifications

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Power Output         | : SSB.....45 Watts PEP                           |
|                      | : FM.....30 Watts                                |
|                      | : AM..... 1 - 9 Watts Average / 50+ Watts PEP    |
| Final Transistors    | : ERF2030 (x2)                                   |
| Spurious Emissions   | : More than 50 dB below peak output power        |
| Carrier Suppression  | : More than 40 dB below peak output power        |
| Unwanted Sideband    | : More than 50 dB below peak output (1 kHz tone) |
| FM Deviation         | : +/- 2 kHz maximum                              |
| Frequency Response   | : 400 to 2800 Hz                                 |
| Microphone Impedance | : ECM, 600 to 1K ohms                            |

## Receiver Specifications

|                            |                                                   |
|----------------------------|---------------------------------------------------|
| Circuit Type               | : Double-Conversion Superheterodyne               |
| Intermediate Frequencies   | : 1st IF .....10.695 MHz                          |
|                            | : 2nd IF .....455 kHz                             |
|                            | : SSB IF .....10.695 MHz                          |
| Sensitivity                | : SSB..... 0.25 uV at 10 dB S + N/N               |
|                            | : AM..... 1.0 uV at 10 dB S + N/N                 |
|                            | : FM..... 0.3uV at dB SINAD                       |
| Selectivity                | : SSB..... 4.2 kHz (-6 dB) / 8.5 kHz (-60 dB)     |
|                            | : AM / FM ..... 6.0 kHz (-6 dB) / 18 kHz (-60 dB) |
| Adjacent Channel Rejection | : Better than 70 dB                               |
| IF Rejection               | : Better than 80 dB for all frequencies           |
| Frequency Response         | : 250 to 3000 Hz                                  |
| Audio Output Power         | : 2 watts minimum at 10% THD with an 8 ohm load   |
| Audio Output Impedance     | : 8 ohms                                          |

**MSRP** : **\$219.99**

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