



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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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

MAGNUM INTERNATIONAL

PO Box 445

Issaquah, Washington 98027

(T) 425-295-0390 • (F) 425-295-0394

(I) www.MagnumRadio.com

(E) info@MagnumRadio.com