

3. OPTIONAL ITEMS

Item	Model
Remote control kit	07RCCM-I
External speaker with cable and plug	05EXT-L
5-tone encoder/decoder	07-5T(A)/07-5T(B)
CTCSS	07-OCT(A)/07-OCT(B)
DTMF	
2-tone decoder	
AC power supply unit, 3.5A	FX-3105
AC power supply unit, 10A	FX-1005M
Stand microphone	ESM-105M
EP-ROM programmer	AF9703
EP-ROM eraser	Quick-EII

4. SPECIFICATIONS

General			
Frequency range	80 MHz Band Model Version A 66-80 MHz Version B 70-88 MHz	150 MHz Band Model Version A 138-150 MHz Version B 148-174 MHz	400 MHz Band Model Version A 335-370 MHz Version B 380-400 MHz Version C 400-440 MHz Version D 440-480 MHz Version E 470-512 MHz Version F 480-520 MHz
Number of zones and channels	2 zones selectable, and maximum 99 programmed channels/zone		
Number of programmed SCAN channels	99 channels maximum		
Switchable channel bandwidth	80 MHz Band Model 2.5 MHz for TX 2 MHz for RX	150 MHz Band Model 6 MHz for TX 3 MHz for RX	400 MHz Band Model 8 MHz for TX 4 MHz for RX
Channel spacing	Wide-band: 20 kHz, 25 kHz, or 30 kHz Narrow-band: 12.5 kHz		
Mode of operation	Single or dual frequency simplex press-to-talk system		
Antenna impedance	50 ohm unbalanced		
Power supply and power consumption	High Power Model 13.8V DC \pm 20% negative ground Low Power Model 13.8V DC \pm 20% negative ground 2.5 A at 5 watts 3.5 A at 10 watts 4 A at 15 watts 5 A at 20 watts 5 A at 30 watts 10 A at 40 watts		
Environmental conditions	Ambient temperature: -30°C to +80°C Relative humidity: 95% at +35°C		
Dimensions and weight (main transceiver unit)	High Power Model 178 mm width 44 mm height 203 mm depth 1.8 kg Low Power Model 178 mm width 44 mm height 175 mm depth 1.5 kg		
Transmitter			
RF power output	80 MHz Band Model 5 to 20 watts	150 MHz Band Model 5 to 15 watts (low power model) 20 to 40 watts (high power model)	400 MHz Band Model 5 to 15 watts (low power model) 15 to 30 watts (high power model)
Maximum frequency deviation	Wide-band: \pm 5 kHz Narrow-band: \pm 2.5 kHz		
Frequency stability	Wide-band: \pm 0.0005% Narrow-band: \pm 0.0003%		
Frequency response	Within \pm 1, -3 dB of 6dB/octave pre-emphasis from 0.3 to 3 kHz, 1 kHz reference		
Signal to noise ratio	Wide-band: More than 50 dB at 1 kHz 70% modulation Narrow-band: More than 45 dB at 1 kHz 70% modulation		
Modulation distortion	Less than 3% at 1 kHz 70% modulation		
Spurious and harmonics	More than 70 dB down below rated power		
Receiver			
Intermediate frequency	1st IF: 21.6 MHz 2nd IF: 455 kHz		
Frequency stability	Wide-band: \pm 0.0005% Narrow-band: \pm 0.0003%		
Sensitivity	Less than 0.35 μ V for 20 dB noise queuing Less than 0.25 μ V for 12 dB SINAD		
Squelch sensitivity	Less than 0.25 μ V		
Bandwidth	More than 12 kHz for 6 dB down		
Selectivity	More than 70 dB at 25 kHz point		
Blocking	More than 90 dB		
Intermodulation	More than 70 dB		
Spurious responses	More than 80 dB		
AF response	Within \pm 1, -3dB of 6dB/octave de-emphasis from 0.3 to 3 kHz, 1 kHz reference		
AF output	More than 2 watts into 4 ohm load, 0 dBm \pm 3 dB at 500 ohm balanced line External speaker: 4 watts into 4 ohm load		
AF distortion	Less than 5% at 1 kHz 70% modulation		
Signal to noise ratio	Wide-band: More than 50 dB at 1 kHz 70% modulation Narrow-band: More than 45 dB at 1 kHz 70% modulation		