

Icom IC-M803 Specifications

General

Frequency coverage	
Rx	500 kHz–29.9999 MHz (Continuous)
Tx	1.6–2.9999, 4.0–4.9999, 6.0–6.9999, 8.0–8.9999, 12.0–13.9999, 16.0–17.9999, 18.0–19.9999, 22.0–22.9999, 25.0–27.5000 MHz
DSC	2.1875, 4.2075, 6.3120, 8.4145, 12.5770, 16.8045 MHz
Mode	
Tx/Rx	J3E (USB, LSB), J2B (AFSK), F1B (FSK), A1A (CW), H3E* (AM) (* H3E receive only)
DSC	J2B
Antenna impedance	50Ω (unbalanced)
Usable temperature range	-20°C to +55°C, -4°F to +131°F
Frequency stability	
Tx/Rx	±10 Hz (below 29.999 MHz)
DSC	±10 Hz
Power supply requirement	13.6V DC ±15% (Negative ground)
Current drain (at 13.6V DC)	
Receive	Less than 3.0 A (Maximum audio output)
Transmit	30A (Maximum output power)
Dimensions (Projections not included)	
Main unit	240 × 94 × 238 mm, 9.4 × 3.7 × 9.4 in (W × H × D)
Controller	274 × 114 × 86 mm, 10.8 × 4.5 × 3.4 in (W × H × D)
Weight	
Main unit	4.41 kg, 9.7 lb (approximate)
Controller	760 g, 1.7 lb (approximate)

Transmitter

Output power	150, 100, 60, 20 W PEP (selectable)
Spurious emissions	Less than -62 dB (Peak output power)
Carrier suppression	More than 40 dB (Peak output power)
Unwanted sideband suppression	More than 55 dB (Peak output power with 1500 Hz AF Input)
Microphone impedance	600Ω

Receiver

Sensitivity at 20 dB SINAD	J3E, A1A	0.5–1.5999 MHz 1.6–1.7999 MHz 1.8–29.9999 MHz	30 dB μ V emf 13 dB μ V emf 8 dB μ V emf
	J2B, F1B	1.6–1.7999 MHz 1.8–29.9999 MHz	4 dB μ V emf –1 dB μ V emf
	H3E	0.5–1.5999 MHz 1.6–1.7999 MHz 1.8–3.9999 MHz	44 dB μ V emf 30 dB μ V emf 24 dB μ V emf

Sensitivity at 10 dB S/N	J3E, A1A	0.5–1.5999 MHz 1.6–1.7999 MHz 1.8–29.9999 MHz	16 dB μ V –1 dB μ V –6 dB μ V
	J2B, F1B	1.6–1.7999 MHz 1.8–29.9999 MHz	–10 dB μ V –15 dB μ V
	H3E	0.5–1.5999 MHz 1.6–1.7999 MHz 1.8–3.9999 MHz	30 dB μ V 16 dB μ V 10 dB μ V

DSC Sensitivity (J2B) 6 dB μ V emf (at 20 dB SINAD)
 –8 dB μ V (at 10 dB S/N)
 –6 dB μ V emf (at 1% BER)

Spurious response

Tx/Rx More than 70 dB
 (0.5–29.9999 MHz)

DSC More than 70 dB

Audio output power 4.0W at 10% distortion with a 4 Ω load

Clarity variable range \pm 150 Hz