

# Icom IC-M510 Specifications

<b>General</b>	
Frequency range	
Tx	156.025 – 157.425 MHz
Rx	156.050 – 163.275 MHz
DSC	156.525 MHz
AIS1*, 2**	161.975 MHz, 162.025 MHz
Usable channels	USA, INT, CAN, WX channels
Type of emission	16K0G3E (FM), 16K0G2B (DSC), 16K0GXW (AIS)*
Power supply requirement	13.8V DC (11.7–15.9V DC)
Current drain	
TX (25W output)	5.0A
RX (Max. Audio)	3.3A
Operating temperature range	-20°C to +60°C; -4°F to +140°F
Antenna impedance	50Ω
Weight (approx.)	730g; 1.6 lbs (Not including microphone)
<b>Transmitter</b>	
Output power (at 13.8V DC)	25W, 1W
Max. frequency deviation	±5.0 kHz
Frequency tolerance	±0.5 kHz
Spurious emissions	Less than -70 dBc (at 25W)
Residual modulation	More than 40 dB
Adjacent channel power	More than 70 dB
<b>Receiver</b>	
Sensitivity (at 12dB SINAD)	0.32 μV typical
DSC (1% BER)	0.89 μV emf typical
Adjacent channel selectivity	More than 75 dB
DSC (1% BER)	More than 73 dBμ emf
Spurious response	More than 75 dB
DSC (1% BER)	More than 73 dBμ emf
Intermodulation	More than 75 dB
DSC (1% BER)	More than 68 dBμ emf
Hum and noise	More than 40 dB
Audio output power at 10% distortion	More than 15W with a 4Ω external speaker
<b>Wireless LAN</b>	
Wireless LAN standard	IEEE 802.11 b/g/n
Authentication and Encryption	WEP (64/128 bit), WPA-PSK (TKIP), WPA2-PSK (AES)
Channels	1 to 13 (2.4 GHz band)**
Output power	Less than 10 mW/MHz

\* 1 - Only for the Integrated AIS version.

\*\* 2 - May differ depending on the country of use.