

IC-F1020M

MARINE VHF BASE STATION



45 Watts – The Most Powerful Marine VHF Radio

For Professional Marine Use

PC Programmable By Channel

Expand Your Marine Communications

The IC-F1020M is a limited coast marine VHF base station that satisfies the FCC rules for both part 90 (land mobile) and part 80 (marine) communications. A powerful 45 watts of output power will satisfy the most demanding commercial user. The IC-F1020M is the ideal radio for marine business and service organizations that must communicate with vessels underway. Each radio can be customized to satisfy particular applications, and is computer programmable for frequency and TX power in both the marine and commercial bands. This 12V DC powerhouse features a die-cast aluminum chassis, 32 channels (expandable to 160), 8 character alphanumeric display, and will operate on both 25kHz and 12.5kHz channel spacing. Complete with 120 VAC power supply, microphone and built-in speaker. When you're looking for the best, insist on ICOM. Simply the best!


ICOM[®]

ADDITIONAL FEATURES

- Selectable channel spacing (channel independent)
- Memo banks
- Emergency call (DTMF code) with single or repeat function
- Tones + group code channels for 2-tone decoder (optional)
- Automatic DTMF transmission linked to PTT
- Standard CTCSS with 51 frequencies (plus 1 programmable)
- Standard DCS with selectable polarity
- 7 DTMF channels for auto-dialing
- Up to 8 alphanumeric characters for memory name display
- 5 scan channel groups
- 2 priority channels
- Scan start and/or tone squelch as the microphone on hook function
- Priority channel select on and/or receive monitor as the microphone off hook function

- Normal scan and priority scan
- Power ON scan start
- Reverse burst equivalent
- Transpond capability (optional 2-tone decoder unit necessary)
- Programmable password security
- Programmable minimum level for audio volume
- Talk around function
- Time-out timer with penalty time
- Transmit lockout (CTCSS/channel busy)
- 2 selectable "stun" functions (optional 2-tone decoder unit necessary)
- External I/O terminal socket (optional OPC-617 required) for PA, horn honk, siren, 9600 baud packet and PTT
- Advanced programming package for IBM®PC or compatible
IBM is a registered trademark of International Business Machines.

SPECIFICATIONS

GENERAL

- Frequency coverage
 - IC-F1020 : 135-155 MHz
 - 145-174 MHz
 - IC-F2020 : 403-430 MHz
 - 450-470 MHz
 - 470-480 MHz
 - 490-512 MHz
- Mode
 - 19K0F3E (wide)
 - 9K50F3E (narrow)
- Number of channels : 32 (standard), 160 (optional)
- Channel spacing : 25 kHz, 30 kHz or 12.5 kHz
- Power supply : 13.8 V DC \pm 15%
- Requirement : (negative ground)
- Current drain (at 13.6 V DC) (typical)
 - High : 15 A (IC-F1020) 11 A (IC-F2020)
 - Squelched : 700 mA
 - Max. audio output : 1.2 A

- Usable temperature range : -20°C to +60°C
- 22°F to +140°F
- Frequency stability : \pm 5 ppm
- Dimensions (opt. not included) : 150(W) x 50(H) x 180(D) mm
- Weight : 1.5 kg, 3 lb 5.0 oz

TRANSMITTER

- Output power
 - IC-F1020 : High 4.5 W
 - Low 4.5 W
 - IC-F2020 : High 3.5 W
 - Low 2 W
- Max. frequency deviation : \pm 5.0 kHz (wide)
- \pm 2.5 kHz (narrow)
- Spurious emissions : \geq 70 dB/m
- Harmonic emissions : \geq 70 dB/m

RECEIVER

- Sensitivity for 12 dB SINAD
 - IC-F1020 : 0.21 μ V (sp)
 - IC-F2020 : 0.25 μ V (sp)
- Squelch sensitivity
 - IC-F1020 : 0.21 μ V
 - IC-F2020 : 0.25 μ V
- Adj. channel selectivity
 - 75 dB (sp. (wide)
 - 65 dB (sp. (narrow))
- Intermodulation rejection : 70 dB/min
- Spurious response rejection : 70 dB/min
- Audio output power : 4 W (typ. at 10% distortion with 4 Ω load)

Measurements made in accordance with EIA/TIA-204D, EIA/TIA-152C.
All stated specifications are subject to change without notice or obligation.

OPTIONS

- **EX-1761 MEMORY EXPANSION UNIT**
Expands memory channels to 160 from 32.
- **OPC-617 ACC. CABLE**
For external terminal connection.
- **RMK-1 SEPARATION KIT**
For front panel detachable installation. One of the following 5 cables must be used with this kit: OPC-607 (1.8 m), OPC-608 (1.8 m) or OPC-606 (1.8 m).
- **SP-5 EXTERNAL SPEAKER**
Large speaker for excellent audio quality. (out. impedance: 4 Ω , Max. input power: 5 W)
- **SP-10 EXTERNAL SPEAKER**
Compact and easy to install. (out. impedance: 4 Ω , Max. input power: 5 W)
- **UT-80 2-TONE UNIT**
Provides 2-tone decoder capability.

- **UT-96 5-TONE UNIT**
Provides 5-tone decoder capabilities as well as 2-tone decoder capabilities via PC programming.
- **UT-105 SmartTune II™ Logic Board**
Provides SmartTune II™ capabilities.
SmartTune is a trademark of SmartTune System Inc.



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Count on us!

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