

# **FT-80C** HF SSB TRANSCEIVER

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# DESCRIPTION

The ultimate in simplicity and convenience for commercial two-way hf communications, the FT-80C provides SSB/ CW/AM and (optionally) FM modes with 100 watts of transmitter power output on up to 20 channels on any frequencies between 1.8 and 30 MHz.

Each channel stores its own mode, simplex or split frequencies and scanning status, and a clarifier is provided for fine tuning on received signals. A wideband AM IF filter is included as standard, and a switchable 20 dB receiver attenuator and noise blanker are provided to optimize reception under varying conditions. The transmitter power amplifier is enclosed in its own diecast aluminum heatsink chamber inside the transceiver, with forced-air cooling by an internal fan allowing even full power FM and AFSK operation when used with a heavy duty power supply.

A bright, backlit Liquid Crystal Display shows operating frequency and mode in addition to channel number, and a large selector knob makes channel selection a snap. All-mode squelch allows the receiver to be silenced between calls.

Optional accessories include your choice of the MD-1B8 Desktop Scanning Micro-

phone or the MH-1B8 Handy Scanning Microphone, the microprocessor controlled FC-1000 Automatic Antenna Tuner or FL-7000 500-watt Automatic Solid State Linear Amplifier, and a TCXO (Temperature Compensated Crystal Oscillator) for added frequency stability. Suitable power supplies available for the FT-80C include the FP-757HD Heavy Duty Series-Regulator Power Supply with forced-air cooling and automatic thermal fan control, or the FP-700 standard power supply for low power and lightduty applications. Both power supplies can be wired for 100/110/117/200/220 or 234 VAC.

OPTIONS				-	
Model		Part No.			
MD-1B8 MH-1B8 MMB-38 XF8.2M5	Desktop Scanning Mic. Hand Scanning Mic. Mobile Bracket 01-1 CW filter	D1000039 D1000040 D6000032 D2000039	MD-1B8	MH-1B8	MMB-38
FP-757 HD FP-700 YA-30 FC-1000 FL-7000 SP-767 SP-767P SP-55	Standard Duty Power S Broadband Dipole Ante Automatic Antenna Tu 500W Automatic Linea Base Station Loudspeak	dard Duty Power Supply dband Dipole Antenna matic Antenna Tuner (100W) V Automatic Linear Amplifier Station Loudspeaker Loudspeaker w/Phone Patch	XF8.2M501-1	FP-757HD	FC-1000

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# **SPECIFICATIONS**

#### GENERAL

Frequency Range 1.5-29.999975 MHz, except 7.6-9 MHz and 23.527 ±50 kHz Number of Channel 20 channels **Channel Steps** SSB & CW: 25 Hz AM : 1 kHz FM\*: 5kHz Frequency Stability (0° to +40°C) SSB, CW, AM: ±200 Hz FM: ±300 Hz **Frequency Accuracy** SSB, CW, AM: ±200 Hz FM : ±300 Hz Antenna Impedance (nominal) 50 ohms, unbalanced Supply Voltage 13.5 V DC ±10% (negative ground) **Maximum Current Consumption** 19A (typical, @100W output) **Dimensions** (WHD) 238 X 93 X 238 mm (without knobs) Weight Approx. 3.5 kg (7.72 lb)

### TRANSMITTER

**Emission Types** LSB, USB (J3E); CW (A1A); AM (A3E) and optionally FM (F3E) Power Output (+20/-10%) SSB, CW & FM\*: 100W PEP/DC, AM: 15W carrier **SSB** Carrier Suppression Better than 40 dB below peak output **Unwanted Sideband Suppression (SSB)** Better than 50 dB (1 kHz tone) **Spurious Radiation** Harmonic: bettern than -46 dB (within 1.8-2.5, 3-3.5, 5.5-8, 10-15 and 18-30 MHz) Non-Harmonic: better than -40 dB Audio Response Less than -6 dB from 400 to 2600 Hz

**3rd Oder Intermodulation Distortion** Better than -25 dB (@ 100W PEP) **Modulation Systems** SSB/CW: active balanced modulator AM : eary stage (low level) FM\*: variable reactance **Maximum FM\* Deviation** ±2.5 kHz **Microphone Impedance** 500 to 600 ohms RECEIVER **Circuit Type** CW, SSB, AM: double conversion FM\* : triple conversion **Clarifier Range** ±9.975 kHz Sensitivity (for 10 dB S+N/N, exc. FM) SSB/CW: 0.5µV AM : 2 µV FM\* : 0.7µV for 12 dB SINAD (above 28 MHz) Squelch Sensitivity SSB/CW/AM: 2.0µV above 1.5 MHz 4.0µV within 0.5-1.5 MHz FM\*: 0.32µV **Intermediate Frequencies** 47.055 MHz, 8.215 MHz, 455 kHz (FM only\*) **Imege Rejection** Better than 70 dB within 1.5-30 MHz **IF** Rejection Better than 60 dB within 1.5-30 MHz Selectivity (-6/-60 dB) SSB, CW (W), AM (N): 2.2/5 kHz CW (N)\*: 500 Hz/1.8 kHz AM (W): 6/14 kHz; FM (6/50 dB)\*: 8/19 kHz Maximum Audio Power Output At least 1.5W into 8 ohms w/10% THD

Audio Output Impedance 4 to 8 ohms

\*FM operation requires optional unit. \*\*Measured with optional CW filter.

Specifications may be subject to change without notice or obligation.



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Printed in Japan B9200071