

## IC-F4TR Specifications



### General

- Frequency range
  - 400 - 430 MHz
  - 450 - 490 MHz
  - 480 - 512 MHz
- Type of Emission:
  - 16K0F3E (25 kHz)
  - 11K50F3E (12.5 kHz)
- PLL channel step: 5 kHz, 6.25kHz
- Antenna impedance: 50 Ohms
- Frequency error:  $\pm 2.5$ ppm
- Power supply requirement: 9.6 V DC (Icom battery pack)
- Current drain (approximately)
  - Transmit:
    - at 4 W: 1.4 A
    - at 1 W: 0.7 A
  - Receive:
    - stand-by: 110 mA
    - rated output: 280 mA
- Dimensions (projections not included):
  - 57(W) x 140(H) x 37(D) mm
  - 2-1/4(W) x 5-1/2(H) x 1-15/32 (D) in
- Weight (with BP-196): 390 g; 13.8 oz

### Transmitter

- Modulation System: Variable reactance frequency modulation
- Output power: 4 W
- Max. frequency deviation:
  - $\pm 5$  kHz (25 kHz)
  - $\pm 2.5$  kHz (12.5 kHz)
- Spurious emissions: 70 dB typical
- Adjacent channel power:
  - 75 dB typical (25 kHz)
  - 70 dB typical (12.5 kHz)
- Audio harmonic distortion: 5% max.

- Residual modulation:
  - 40 dB (25 kHz)
  - 34 dB (12.5 kHz)
- Limiting character of modulation: 60-100%
- External mic. connector:
  - 3-conductor 2.5 (d) mm (1/10")
  - 2.2 kOhms

#### Receiver

- Intermediate frequency
  - 1st 47.25 MHz
  - 2nd 450 kHz
- Sensitivity: 0.3  $\mu$ V (at 12 dB SINAD)
- Squelch sensitivity: 0.3  $\mu$ V (typical; at threshold)
- Adjacent channel selectivity:
  - 70 dB typical (25 kHz)
  - 65 dB (12.5 kHz)
- Spurious response rejection: 70 dB typical
- Intermodulation rejection ratio: 75 dB typical
- Hum and noise ratio:
  - 48 dB (25 kHz)
  - 43 dB (12.5 kHz)
- Audio output power: 500 mW (at 5% distortion with an 8 Ohm load)
- External speaker connector: 2-conductor 3.5 (d) mm (1/8")/8 Ohm

Measurements made in accordance with EIA/TIA-152-C, 204D, 603 or ETS-300-086 or CEPT T/R 24.

#### Options

- BC-119 DESKTOP CHARGER + AD-81 CHARGER ADAPTER For rapid charging of battery packs, BP-195 or BP-196. An AC adapter is supplied with the charger. Charging time: 1.5 to 2 hrs.
- BC-121 MULTI-CHARGER + AD-81 CHARGER ADAPTER + BC124 AC ADAPTER For rapid charging up to 6 battery packs simultaneously, BP-195 or BP-196. Six AD-81's are necessary. The BC-124 outputs 12 V DC and has 7 A capacity for the BC-121. Charging time: 1.5 to 2 hrs.
- BC-133 BATTERY CHARGER Regularly charges a battery pack, BP-195 or BP-196, with/without transceiver. The AC adapter, BC-122 is additionally required.
- BC-110A/C/D/V WALL CHARGER Use for charging the connected battery pack.
- BP-194 BATTERY CASE Battery case for AA(R6) x 8 batteries.
- BP-195 BATTERY PACKS Ni-Cd, 79.6 V/700 mAh
- BP-196 BATTERY PACKS Ni-Cd, 9.6 V/1050 mAh
- HM-46 SPEAKER-MICROPHONE Slim dimensions. Equipped with an earphone jack and a transmit indicator.
- HM-54 SPEAKER-MICROPHONE Durable, full-sized speaker-microphone.
- HM-75A SPEAKER-MICROPHONE Allows you to remotely select operating channels, etc.
- HS-51 HEADSET For hands-free operation. Includes VOX, PTT and "one-touch" PTT with a time-out timer.
- MB-68 BELT CLIP Allows you to attach the transceiver to your belt. The same as that supplied with the transceiver.
- SP-13 EARPHONE Provides clear audio in noisy environments.

- OPC-254L DC POWER CABLE Allows you to charge a battery pack connected to the transceiver via a DC power source (12-16 V DC). For charging ONLY - the transceiver cannot be simultaneously operated.
- CP-12L CIGARETTE LIGHTER CABLE WITH NOISE FILTER Allows you to charge a battery pack connected to the transceiver via a cigarette lighter power source (12-16 V DC). For charging ONLY - the transceiver cannot be simultaneously operated.
- VS-1 VOX PTT Switch
- HS-94 Earpiece style headset for the VS-1

Tri-County Communications, Inc.

6 Keith St.  
Oneonta, NY 13820  
1-800-564-8724

110 Broad Ave.  
Binghamton, NY 13904  
1-800-924-1125

[sales@tricountycom.com](mailto:sales@tricountycom.com)