

## **IC-F3GT/GS & IC-F4GT/GS Specifications**

### **General**

- Frequency range
  - IC-F3GT/GS
    - 136 -150 MHz
    - 146 - 174 MHz
  - IC-F4GT/GS
    - 400 - 430 MHz
    - 440 - 470 MHz
    - 470 - 500 MHz
    - 490 - 512 MHz (USA)
    - 490 - 530 MHz (others)
- Number of channels: Total 40
- Type of Emission:
  - 6K0F3E (25 kHz; not available in the U.S.A.)
  - 8K50F3E (12.5 kHz)
  - 14K0F3E (20 kHz; not available in the U.S.A.)
- Antenna impedance: 50 Ohms
- Frequency error:
  - $\pm 0.0005\%$  (EIA; IC-F3GT)
  - $\pm 0.00025\%$  (EIA; IC-F4GT)
  - $\pm 1.5$  kHz (ETS; 12.5kHz)
  - $\pm 2$  kHz (ETS; 25/20 kHz)
- PLL channel step: 5 kHz, 6.25 kHz, 7.5 kHz
- Power supply requirement: 7.2 V DC (Icom battery pack)
- Current drain (at 7.2 V DC)
  - Transmit:
    - at 5 W 1.6 A (IC-F3GT/GS)
    - at 4 W 1.5 A (IC-F4GT/GS)
    - at 1 W 0.7 A (IC-F3GT/GS), 0.8 A (IC-F4GT/GS)
  - Receive:
    - at AF max. 250 mA
    - at stand-by 70mA
- Operating temperature range:
  - $-30^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ ;  $-22^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$  (EIA)
  - $-25^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$  (ETS)
- Dimensions (projections not included):
  - 54(W) x 132(H) x 35(D) mm
  - 2-1/8(W) x 5-3/16(H) x 1-7/16 (D) in
- Weight (with BP-209): 370 g; 13.1 oz

### **Transmitter**

- Modulation System: Variable reactance frequency modulation
- Output power: (at 9.6 V DC)
  - IC-F3GT/GS 5.0 W
  - IC-F4GS/GT 4.0 W
- Max. frequency deviation:  $\pm 2.5$  kHz,  $\pm 5$  kHz,  $\pm 4$  kHz
- Modulation limiting: 80-100%
- Audio harmonic distortion
  - 3% max. (1 kHz/40% dev.)
  - 5% max. (1 kHz/60% dev.)
- Spurious emissions:
  - 73 dBc (EIA)
  - Less than 0.25  $\mu\text{W}$  (ETS)

- Adjacent channel power:
  - 60 dB (EIA)
  - 60 dB (ETS; 12.5 kHz)
  - 70 dB (ETS; 25/20 kHz)
- Residual modulation:
  - 40 dB (EIA)
  - 43 dB (ETS; 12.5 kHz)
  - 45 dB (ETS; 25/20 kHz)
- External mic. connector:
  - 3-conductor 2.5 (d) mm (1/10")
  - 2.2 k Ohms

### **Receiver**

- Intermediate frequency
  - 1st 31.05 MHz(IC-F3GT/GS)  
46.35 MHz (IC-F4GT/GS)
  - 2nd 450 kHz
- Sensitivity
  - IC-F3GT/GS 0.25  $\mu$ V (at 12 dB SINAD)
  - 0.63  $\mu$ V (at 20 dB SINAD)
  - IC-F4GT/GS 0.30  $\mu$ V (at 12 dB SINAD)
  - 0.79  $\mu$ V (at 20 dB SINAD)
- Squelch sensitivity (at threshold)
  - IC-F3GT/GS 0.25  $\mu$ V
  - IC-F4GT/GS 0.30  $\mu$ V
- Adjacent channel selectivity:
  - 65 dB (EIA)
  - 60 dB (ETS; 12.5 kHz)
  - 70 dB (ETS; 25/20 kHz)
- Spurious response rejection:
  - 70 dB (EIA)
  - 70 dB (ETS)
- Intermodulation rejection:
  - 70 dB (EIA)
  - 65 dB (ETS)
- Hum and noise ratio:
  - 40 dB (EIA)
  - 43 dB (ETS; 12.5 kHz)
  - 45 dB (ETS; 25/20 kHz)
- Audio output power: 0.5 W 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-94 CHARGER ADAPTER For rapid charging of battery packs, BP-209 or BP-210. An AC adapter is supplied with the charger. Charging time: 1.5 to 2 hrs.
- BC-121 MULTI-CHARGER + AD-94 CHARGER ADAPTER + BC124 AC ADAPTER For rapid charging up to 6 battery packs simultaneously, BP-209 or BP-210. Six AD-94'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-137 BATTERY CHARGER Regularly charges a battery pack, BP-209 or BP-210, with/without transceiver. The AC adapter, BC-122 is additionally required.
- BP-208 BATTERY CASE Battery case for AA(R6) x 6 batteries.

- BP-209 BATTERY PACKS Ni-Cd, 7.2 V/1100 mAh
- BP-210 BATTERY PACKS Ni-Mh, 7.2 V/1650 mAh
- HM-46L SPEAKER-MICROPHONE Slim dimensions. Equipped with an earphone jack and a transmit indicator.
- 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.
- UT-96 5-TONE UNIT Provides either the 2/5-tone encode/decode and ANI capabilities.
- UT-105 SmarTrunk II Provides SmarTrunk II capabilities. SmarTrunk is a trademark of SmarTrunk System Inc.
- UT-108 DTMF DECODER Provides DTMF decode and ANI capabilities.
- UT-109 Voice Scrambler Unit Provides operating security. Up to 32 scrambling codes are available. The scrambling system is not compatible with the UT-110, therefore cannot operate with the scrambled signals by UT-110.
- UT-110 Voice Scrambler Unit Provides higher operating security. Up to 1020 (255 codes x 4 groups) scrambling codes are available. The scrambling system is not compatible with the UT-109, therefore cannot operate with the scrambled signals by UT-109.
- UT-111 Trunking Unit Provides LTR® trunking capabilities.
- UT-113 Allows man down function.

**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)  
[www.tricountycom.com](http://www.tricountycom.com)