

IC-F30GT/GS* and IC-F40GT/GS* Specifications

This information is taken directly off of the ICOM IC-F30GT/GS and IC-F40GT/GS brochure.

General

- Frequency range
 - IC-F30GT/GS: 136-174 MHz
 - IC-F40GT/GS: 400-430 MHz; 440-480 MHz; 450-490 MHz (USA); 480-512 MHz (USA); 480-520 MHz (others)
- Number of channels: Max. 256 Ch/ 16 banks
- Type of emission:
 - 16K0F3E (25/30 kHz)
 - 8K50F3E (12.5/15 kHz)
 - 14K0F3E (20kHz)
- Channel spacing:
 - 30/15 kHz (25/12.5 kHz)
 - 20/12.5 kHz
- Antenna impedance: 50 ohms
- Frequency error: ± 2.5 ppm (EIA); ± 1.5 kHz (ETS)
- PLL channel step: 5 kHz, 6.25 kHz, 7.5 kHz
- Power supply requirement: 7.5 V DC (Icom battery pack)
- Current drain (at 7.5 V DC; approx.):
 - Transmit at 5 W: 1.7 A typ. (IC-F30GT/GS)
 - Transmit at 4 W: 1.7 A typ. (IC-F40GT/GS)
 - Receive at AF max: 300 mA
 - Receive at stand-by: 95 mA
- Operating temperature range:
 - -30°C to $+60^{\circ}\text{C}$; -22°F to $+140^{\circ}\text{F}$ (EIA)
 - -25°C to $+55^{\circ}\text{C}$ (ETS)
- Dimensions (projections not included):
 - 54(W) x 139(H) x 38(D) mm
 - 2 1/8(W) x 5 15/32(H) x 1 1/2(D) in
- Weight (with BP-210): 420 g; 14.8 oz

Transmitter

- Modulation system: Variable reactance frequency modulation
- Output power (nominal):
 - 5.0 W (IC-F30GT/GS)
 - 4.0 W (IC-F40GT/GS)
- Max. freq. deviation: ± 2.5 kHz, ± 5 kHz, ± 4 kHz
- Modulation limiting: 60-100%
- Audio harmonic distortion: 3% typ. (1 kHz/40% dev.)
- Spurious emissions:
 - -73 dB (EIA)
 - Less than 0.25 μW (ETS)
- Adjacent channel power:
 - 60 dB (ETS; 12.5 kHz)
 - 70 dB (ETS; 25/20 kHz)
- Residual modulation:
 - 43 dB typ. (ETS; 12.5 kHz)
 - 45 dB typ. (ETS; 25/20 kHz)
- External MIC connector: 9-pin multi connector / 2.2 kohm

Receiver

- Intermediate freq.:
 - 1st:

- 31.65 MHz (IC-F30GT/GS)
- 47.25 MHz (IC-F40GT/GS)
- 2nd: 450 kHz
- Sensitivity:
 - 0.25 μ V typ. (at 12db SINAD)
 - 0.63 μ V typ. (at 20 dB SINAD) e.m.f.
- Squelch sensitivity: 0.25 μ V (at threshold)
- Adjacent Ch. selectivity:
 - 63 dB typ. (ETS; 12.5 kHz)
 - 73 dB typ. (ETS; 25 kHz)
- Spurious response:
 - 70 dB (EIA)
 - 70 dB (ETS)
- Intermodulation:
 - 74 dB typ. (EIA)
 - 70 dB typ. (ETS)
- Hum and noise ratio:
 - 40 dB typ. (EIA; 12.5 kHz)
 - 43 dB typ. (EIA; 25/20 kHz)
 - 43 dB typ. (ETS; 12.5 kHz)
 - 45 dB typ. (ETS; 25/20 kHz)
- Audio output power: 0.5 W typ. at 5% distortion with an 8 ohm load
- External speaker connector: 9-pin multi connector /8 ohm

Measurements are made in accordance with EIA-152/204D, TIA-603 or ETS 300-086. All stated specifications are typical and subject to change without notice or obligation.

Applicable U.S. Military Specifications

Icom makes rugged products that meet MIL-STD requirements and strict environmental standards as follows:

Standard	MIL 810C		MIL 810D		MIL 810E	
	Method	Procedure	Method	Procedure	Method	Procedure
Vibration	514.2	X	514.3	I	514.4	I
Shock	516.2	I	516.3	I	516.4	I

Supplied Accessories:

- Antenna
- Belt clip
- Battery pack

Options

Battery packs and case:

- **BP-208** AA battery case (Alkaline batteries not included)
- **BP-209** NiCd battery pack 7.2 V / 1100 mAh
- **BP-210** NiMH battery pack 7.2 V / 1650 mAh

Approximate output power and battery life (Tx (HI): RX: standby=5:5:90)

Battery Pack	Output Power		Battery Life (approx.)
	IC-F30GT/GS	IC-F40GT/GS	
BP-208	1 W typ.	1 W typ.	-
BP-209	5 W typ.	4 W typ.	6.5 hours
BP-210	5 W typ.	4 W typ.	10 hours

Battery chargers:

- **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.

Belt clips:

- **MB-74 BELT CLIP:** Alligator type. Clips onto almost anything!
- **MB-68 BELT CLIP:** Same as supplied with the unit.

Speaker-Microphones:

- **EM-80:** Durable, full sized microphone with internal speaker.
- **EM-89:** Slim dimensions. Equipped with an earphone jack and a transmitter indicator.
- **AD-52 EARPHONE JACK ADAPTER:** Transforms 9-pin multi connector to 3.5 mm (1/8") earphone connector.

Internal units:

- **UT-105 SmarTrunk II™ LOGIC BOARD:** Provides SmarTrunk II™ 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.
- **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.
- **UT-111 TRUNKING UNIT:** Provides LTR® trunking capabilities.
- **UT-113 MAN DOWN UNIT:** Automatically sends an emergency signal when the transceiver is left in the horizontal position.

Combination of available internal units:

Check mark indicates that units are available simultaneously.

(1) UT-113 is available in conventional mode.

(2) UT-105 and the UT-111 have to be installed in slot 1.

* Same optional types, such as UT-109 and UT-110, cannot be installed simultaneously.

Antennas:

- **FA-SC25V:** VHF antenna for 136-155 MHz
- **FA-SC55V:** VHF antenna for 146-174 MHz
- **FA-SC25U:** UHF antenna for 440-470 MHz
- **FA-SC72U:** UHF antenna for 470-520 MHz

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