



VHF AND UHF TRANSCEIVERS

IC-F3GT

(VHF transceiver with keypad)

IC-F4GT

(UHF transceiver with keypad)

IC-F3GS

(VHF transceiver without keypad)

IC-F4GS

(UHF transceiver without keypad)



Rugged
MIL-STD 810





Supports demanding com

DURABILITY, DEPENDABILITY, OPERATION SIMPLICITY, STYLE, RUGGEDNESS, ECONOMICAL USE, AND MORE ARE REQUIRED FOR COMMERCIAL TRANSCEIVERS. BUT ONLY A FEW SUCH TRANSCEIVERS ARE AVAILABLE, PARTICULARLY FOR PORTABLES. NOW FROM ICOM— THE IC-F3G SERIES OF PORTABLE TRANSCEIVERS AIM TO BECOME THE MOST HIGHLY REPUTABLE OF ALL COMMERCIALS. SUPERIOR PERFORMANCE AND FEATURES, EVERYTHING YOU REQUIRE IS INCLUDED. ICOM'S TECHNOLOGY GIVE YOU SATISFACTION YOU NEVER KNEW BEFORE.

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VHF transceiver with keypad

IC-F3GS

VHF transceiver without keypad

IC-F4GT

UHF transceiver with keypad

IC-F4GS

UHF transceiver without keypad

Supports multiple signalling and flexible selective calling

CTCSS/DTCS encoder/decoder, and DTMF, 2/5-tone encoder with user programmable CTCSS, DTCS capabilities, are built-in. The optional UT-96[†] (for 2/5-tone), or UT-108[†] (for DTMF) allows decode with ANI functions. In addition, special tone code, for group, and individual calls, and more features are available to support flexible, perfect selective calling operations.

- 7-digit code can be used as the 5-tone
- Direct individual station/group call with/without own ID transmission, or through repeater
- Selectable 5-tone format includes user tone format programming capability (Encode and Decode frequencies, Tone period, No-tone timer, and Tone length)
- Text or ID number indication
- Desired 5-tone code entering for both individual and group call
- Transceiver remote control—stun, kill, and scan start/stop functions
- Selectable comparing digit code for decoding
- Selective calling capability from a public telephone (UT-108 DTMF DECODER is required; base/repeater station must be connected to the public telephone network)

Man down function*

Automatically sending an emergency signal when the transceiver is left in the horizontal position for a pre-set time.

*Optional UT-124[†] is required.

Trunking capabilities*

The IC-F3G series is compatible with the LTR[®] trunking systems.

*Optional UT-111[†] for LTR[®] trunking is required.

Operation security

Optional voice scrambler units, UT-109[†] and UT-110[†], for secure communications are available.

Programmable key assign

Up to 8 programmable keys are available to assign specific functions. In particular, the red key can be used for important function, such as emergency call, etc.

Wide/narrow channel switchable depending on version



MIL spec. durability

54(W)×132(H)×35(D) mm* compact body with durable, dependable construction, has been tested to the MIL standard.

*2¹/₈(W)×5³/₁₆(H)×1⁷/₁₆(D) in

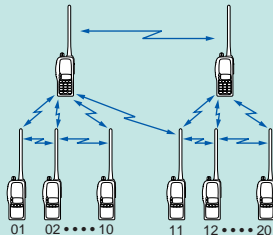


Simple operation

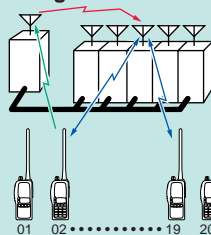
Enlarged 7-character alphanumeric automatic backlit LCD, and function keys make for easier operation.

System image diagram

Conventional



LTR[®] trunking



Communication with simple operation



OPTIONS

Some options may not be available in some countries. Please ask your dealer for details.

BATTERY PACKS AND CASE

BP-208N BP-209N/BP-222N BP-210N BP-211N

BATTERY PACKS & CASE	TYPE & CAPACITY	OUTPUT POWER		BATTERY LIFE
		IC-F3GT/GS	IC-F4GT/GS	
BP-208N	AA (LR6) batteries × 6	1 W typ.	1 W typ.	—
BP-209N	Ni-Cd 7.2 V/1100 mAh	5 W typ.	4 W typ.	8 hours
BP-210N	Ni-MH 7.2 V/1650 mAh	5 W typ.	4 W typ.	11 hours
BP-211N	Li-Ion 7.4 V/1800 mAh	5 W typ.	4 W typ.	12 hours
BP-222N	Ni-Cd 7.2 V/600 mAh	5 W typ.	4 W typ.	4.5 hours

Approx.: (Tx) (Hi) (Rx) standby=5:5:90

MULTI-CHARGER

▲ BC-121N+AD-101 (6 pcs.) ▲ BC-157

BC-121N MULTI-CHARGER + AD-101 CHARGER ADAPTER + BC-157 AC ADAPTER
For rapid charging of up to 6 battery packs (six AD-101s are required.), BP-209N, BP-210N, BP-211N or BP-222N. Charging time: 1.5 to 2 hours.
OPC-656 DC POWER CABLE: For use the BC-121N with a DC power supply. (12–20 V DC required.)

BC-144N + BC-145

BC-144N DESKTOP CHARGER + BC-145 AC ADAPTER
For rapid charging of battery packs (except for BP-211N). Charging time: 1.5 to 2 hours.
BC-119N + AD-101 + BC-145 rapidly charges BP-211N as well as other battery packs.

BC-146 + BC-147

BC-146 DESKTOP CHARGER + BC-147 AC ADAPTER
Charges the battery pack, BP-209N, BP-210N or BP-222N with/without transceiver in 12, 18.5, 6.5 hours (approx.), respectively. Cannot charge Li-Ion battery, BP-211N.

HEADSETS and PTT/VOX UNIT

▲ HS-94 ▲ HS-95 ▲ HS-97 ▲ VS-1L

HS-94 : Earhook headset with flexible boom microphone.
HS-95 : Behind-the-head headset with flexible boom microphone.
HS-97 : Throat microphone fits around your neck and picks up speech vibration.
VS-1L : PTT/VOX unit. Required when using these headsets with the transceiver.

SPEAKER-MICROPHONES

▲ HM-153L ▲ HM-158L ▲ HM-159L ▲ HM-166L

HM-153L : Durable earphone-microphone with revolving clip.
HM-158L : Compact and durable body with plug screw connector.
HM-159L : Full size durable speaker microphone.
HM-166L : Light-weight earphone microphone with revolving clip.
SP-13 : EARPHONE Provides clear audio in noisy environments.

HS-51 HEADSET

For hands-free operation. Includes VOX, PTT and "one-touch" PTT with a time-out timer. (UHF only in USA and Canada)

BELT CLIPS

MB-86 MB-103

MB-86 : Swivel type. Provide a fast and easy way to remove the radio from your belt.
MB-103 : Alligator type. Same as supplied.

LEATHER BELT HANGERS

MB-96F ▲ MB-96N

MB-96F : Fixed type belt hanger for use with MB-103.
MB-96N : Swivel belt hanger.

UT-96 5-TONE UNIT UT-108 DTMF DECODER UT-109 (#01) VOICE SCRAMBLER UNIT UT-110 (#01) VOICE SCRAMBLER UNIT UT-111 TRUNKING UNIT UT-124 MAN DOWN UNIT

UT-96 : Provides either the 2/5-tone encode/decode and ANI capabilities.
UT-108 : Provides DTMF decode and ANI capabilities.
UT-109 : Provides operating security. Up to 32 scrambling codes are available.
UT-110 : Provides higher operating security. Up to 1020 (255 codes × 4 groups) scrambling codes are available.
UT-111 : Provides LTR® trunking capabilities.
UT-124 : Automatically sends an emergency signal when the transceiver is left in a horizontal position for a preset time.

ANTENNAS (Standard type)
• FA-SC25V for 136–150MHz
• FA-SC55V for 150–174MHz
• FA-SC25U for 400–430MHz
• FA-SC57U for 430–470MHz
• FA-SC72U for 470–520MHz

STUBBY ANTENNAS
• FA-SC56VS : 150–162MHz
• FA-SC57VS : 160–174MHz
• FA-SC73US : 450–490MHz

CUT ANTENNAS
• FA-SC61VC : 136–174MHz
• FA-SC61UC : 380–520MHz
Cut the antenna element to tune to a specific center frequency.

Long life batteries

The standard Ni-Cd battery pack, allows 8 hours* operation. Optional battery pack for extended operation, and a battery case for use while charging the battery, or for emergency operation, etc., are available.
*approx.; Tx:Rx:Standby ratio = 5:5:90

Other features

- 100 or 40 memory channels are available
- Powerful 5 W output for IC-F3GT/GS, 4 W output for IC-F4GT/GS
- Selectable channel attribute from emergency, priority A/B, and normal
- Normal and priority scans
- Auto LCD contrast
- 2 step power saver
- 5 autodialing memories for DTMF
- Busy, repeater lockout functions
- Power ON password
- Mic. remote control function, and more...

†only one of either unit can be installed.

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)
 - 490–520 MHz (others)
- Number of channel : 100Ch or 40Ch (Varies according to version)
- Channel spacing : 12.5 kHz, 20 kHz, 25kHz
12.5/25kHz
- Antenna impedance : 50 Ω
- Frequency error : ±0.0005% (EIA; IC-F3GT)
±0.00025% (EIA; IC-F4GT)
±1.5 kHz (ETS; 12.5 kHz)
±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 : 1.55 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 : 70 mA
- Operating temp. range : –30°C to +60°C; –22°F to +140°F (EIA)
–25°C to +55°C (ETS)
- Dimensions (projections not included) : 54(W)×132(H)×35(D) mm
; 2¹/₈(W)×5³/₁₆(H)×1⁷/₁₆(D) in
- Weight (with BP-209) : 370 g; 13.1 oz

TRANSMITTER

- Output power : IC-F3GT/GS 5.0 W
IC-F4GT/GS 4.0 W
- Max. freq. deviation : ±2.5 kHz, ±5 kHz, ±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 μW (ETS)
- Adjacent ch. power : 60 dB typ. (EIA; 12.5 kHz)
70 dB typ. (EIA; 25 kHz)
60 dB (ETS; 12.5 kHz)
70 dB (ETS; 25/20 kHz)
- Residual modulation : 40 dB typ. (EIA; 12.5 kHz)
45 dB typ. (EIA; 25 kHz)
43 dB (ETS; 12.5 kHz)
45 dB (ETS; 25/20 kHz)
- External MIC connector : 3-conductor 2.5 (d) mm (1/16")/2.2 kΩ

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RECEIVER

- Sensitivity :
 - IC-F3GT/GS : 0.25 μV (at 12 dB SINAD)
 - 0.63 μV (at 20 dB SINAD)
 - IC-F4GT/GS : 0.3 μV (at 12 dB SINAD)
 - 0.79 μV emf (at 20 dB SINAD)
- Squelch sensitivity (at threshold):
 - IC-F3GT/GS : 0.25 μV
 - IC-F4GT/GS : 0.3 μV
- Adjacent Ch. selectivity : 65 dB typ. (EIA; 12.5 kHz)
75 dB typ. (EIA; 25 kHz)
60 dB (ETS; 12.5 kHz)
70 dB (ETS; 25/20 kHz)
- Spurious response : 70 dB (EIA)
70 dB (ETS)
- Intermodulation : 70 dB (EIA)
65 dB (ETS)
- Hum and noise ratio : 40 dB typ. (EIA; 12.5 kHz)
45 dB typ. (EIA; 25 kHz)
43 dB (ETS; 12.5 kHz)
45 dB (ETS; 25/20 kHz)
- Audio output power : 0.5 W at 5% distortion with an 8 Ω load
- External SP connector : 2-conductor 3.5 (d) mm (1/8")/8 Ω

Applicable U.S. Military Specifications

Icom makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Standard	MIL 810C		MIL 810D		MIL 810E	
	Method	Procedure	Method	Procedure	Method	Procedure
Low Pressure	500.1	I	500.2	I, II	500.3	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II
Temp. Shock	503.1	I	503.2	I	503.3	I
Solar Radiation	505.1	I	505.2	I	505.3	I
Rain	506.1	I, II	506.2	I, II	506.3	I, II
Humidity	507.1	I, II	507.2	II, III	507.3	II, III
Salt Fog	509.1	I	509.2	I	509.3	I
Dust	510.1	I	510.2	I	510.3	I
Vibration	514.2	VIII, X	514.3	I	514.4	I
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV

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

Supplied accessories:

- Antenna (may differ according to version)



• Belt clip

• Battery pack, BP-209N

• Plastic plate

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