



UHF TRANSCEIVER

# IC-F21GM



Rugged  
**MIL-STD 810**



## Personal Communications with More Features, Power and Range!

- **GMRS** General Mobile Radio Service – simple license required  
*Including 7 channels shared with **FRS** Family Radio Service channels*

### A better communications solution

Perfect for sportsmen, families, clubs, hobbies, boating, camping, fishing, hunting – wherever you go where you need more power than a typical FRS radio offers.

### Keep in touch for free – no cell phone fees!

Keep all your associates in touch instantly without the interruption of a public address system and complication of a cell phone.

### 8x more power than standard FRS (at maximum power)

Get a full 4 watts when you need it. Increase the range of your transmissions outdoors up to 5 *Plus* miles\*, while the repeater function can be extended communication to 25 or more miles\*. And indoors where obstacles and walls offer challenges to regular FRS radios. Crystal clear communications in almost any situation.

\*Communications range may vary depending on operating environment, weather conditions. Repeater use may require a subscription.

### More channels than a standard FRS

With the popularity of FRS, many of those channels are busy. Choose from 15 higher power GMRS channels to locate a quiet channel for your use. 7 channels are shared with FRS channels. You can also communicate with any FRS radios on these 7 channels.

### Simple operation

All channels are pre-programmed internally. You simply select the ones you want and assign to the channel selector. Do it yourself, no programming required by your re-seller.

### Operate right out of the box – simple license required

Apply for GMRS on-line at the FCC web site. Complete instructions included in the box. Operate immediately after FCC application\*.

\* Detail explained in the owner's manual.

### Compact body

Measuring only  $2\frac{1}{8} \times 5\frac{1}{32} \times 1\frac{15}{32}$  in, the IC-F21GM is truly portable. It's small enough to fit into a pocket. And, since it weighs only 10.6 oz.\*, you can carry one all day without fatigue or fuss.

\* With standard BP-222 Ni-Cd battery pack

### Other features

- Adjustable squelch
- Drop-in battery charger included
- Optional speaker mic and VOX headset available
- Optional alkaline or Ni-MH battery pack
- Built-in signaling capability (CTCSS & DTCS)
- Scanning and Tone Find functions
- Wide/narrow capability (12.5 or 25kHz)

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**SPECIFICATIONS**

- Frequency coverage : 462.550–467.725MHz
- Number of channels : 15
- Power supply requirement : 7.2V DC (negative ground)
- Current drain :
  - Tx High (4W) : 1.6A
  - Low1 (2W) : 1.2A
  - Low2 (1W) : 0.8A
  - Rx Rated audio : 250mA
  - Standby : 70mA
- Operating temperature range :
  - 30°C to +60°C ; –22°F to +140°F
- Dimensions (WxHxD) : 54×128×37 mm (proj. not included) 2 1/8×5 1/32×1 1/8 in
- Weight (with BP-222) : 300g (10.6oz)
- Output power (at 7.2V DC) : 4W, 2W or 1W
- External mic. connector : 3-conductor 2.5 (d) mm (1/10")/2.2kΩ
- Audio output power : 500mW (typical at 5% (at 7.2V DC) distortion with an 8Ω load)
- External speaker connector : 2-conductor 3.5 (d) mm (1 1/8")/8Ω

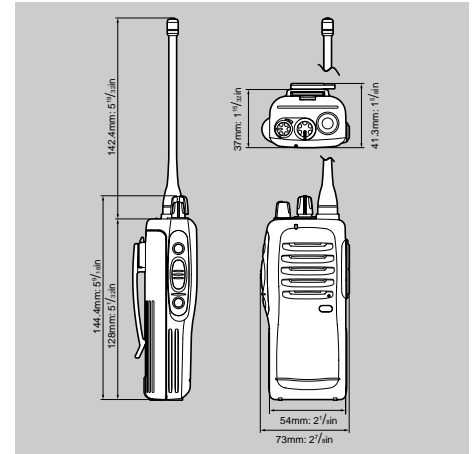
**Supplied accessories:**

- Battery pack; BP-222N
- Battery charger; BC-146
- Antenna; FA-SC57U
- Belt clip; MB-103
- AC adapter; BC-147A

**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 810 C		MIL 810 D		MIL 810 E		MIL 810 F	
	Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I, II	500.3	I, II	500.4	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II	501.4	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II	502.4	I, II
Temp. Shock	503.1	I	503.2	I	503.3	I	503.4	I
Solar Radiation	505.1	I	505.2	I	505.3	I	505.4	I
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, II
Humidity	507.1	I, II	507.2	II, III	507.3	II, III	507.4	–
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	–
Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII, X	514.3	I	514.4	I	514.5	I
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV



All stated specifications are subject to change without notice or obligation.

**OPTIONS**

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

<b>BP-208N</b> AA (LR6) batteries × 6	<b>BP-209N</b> Ni-Cd 7.2V/1100mAh	<b>BP-210N</b> Ni-MH 7.2V/1650mAh	<b>BP-211N</b> Li-Ion 7.4V/1800mAh
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BATTERY PACKS AND CASE	BP-208N	BP-209N	BP-210N	BP-211N	BP-222N
OUTPUT POWER	1W typ.	4W typ.	4W typ.	4W typ.	4W typ.
BATTERY LIFE	–	8.5hours	13hours	14hours	4.5hours

Battery life is approx. time; (Tx (H)): Rx: standby=5:5:90

**BC-146 DESKTOP CHARGER + BC-147A AC ADAPTER**  
Charges the Ni-Cd or Ni-MH battery pack, BP-209N, BP-210N, BP-222N with/without transceiver in 12, 18.5, 6.5 hours (approx.), respectively. The BC-147A AC adapter is additionally required. Cannot charge Li-Ion battery pack, BP-211N.

**BC-144N DESKTOP CHARGER + BC-145A AC ADAPTER**  
For rapid charging of battery pack, BP-209N, BP-210N or BP-222N. An AC adapter, BC-145, is supplied with the charger depending on version. Charging time: 1.5 to 2 hours. Cannot charge Li-Ion battery pack, BP-211N.

**BC-119N+AD-101+BC-145A** rapidly charges BP-211N as well as other battery packs.

**BC-121N MULTI-CHARGER + AD-101 CHARGER ADAPTER + BC-157 AC ADAPTER**  
For rapid charging of up to 6 battery packs (including BP-211N) in 1.5 to 2 hours. Six AD-101s are required.

**OPC-656 DC POWER CABLE**; For use the BC-121N with a DC power supply (12-20 V DC).

**SPEAKER-MICROPHONE**

**AHM-158L**

HM-158L : Compact and durable body with screw-type connector.  
HM-46L: Slim dimensions speaker microphone.

**HEADSETS**

**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 a speech vibration.  
**VS-1L** : VOX/PTT unit. Required when using these headsets with the transceiver.  
**HS-51** : Headset is also optionally available. Includes VOX, PTT and "one-touch" PTT with a time-out timer. (UHF only in U.S.A. and Canada)

**BELT CLIP**

**MB-86**

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

**AD-98FSC ANTENNA CONNECTOR ADAPTER**  
Allows you to connect a BNC-type antenna. (For maintenance use only)  
**FA-SC73US STUBBY ANTENNA**  
60mm (2 3/8 inch) stubby antenna. Frequency range: 450–490MHz  
**LEATHER BELT HANGERS**  
**MB-96N**: Swivel type belt hanger.  
**MB-96F**: Fixed type belt hanger. Use with MB-103.  
**SP-13 EARPHONE**  
Provides clear audio in noisy environment.

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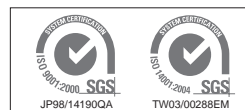
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