

# IC-F1610



The photo shows actual size.

## Versatile, multi-function PMR

- **Keypad with backlighting and dot matrix, multi-function display**

The keypad on the front panel allows direct input of memory channels, DTMF codes, tone frequencies and SmarTrunk II™ codes. Backlighting ensures smooth input even during nighttime operation. The display shows a wide variety of information at a glance. In addition to various icons, 2 lines of dot matrix characters (of up to 16 characters per line) show important operating status items such as channel number, programmable key functions, etc., depending on programming.

- **Superior receiver performance**

Improved, high-performance IMD characteristics.

- **Flash ROM CPU**

- **Detachable front panel\***

The detachable front panel provides installation flexibility and is easy to install in a number of vehicle types.

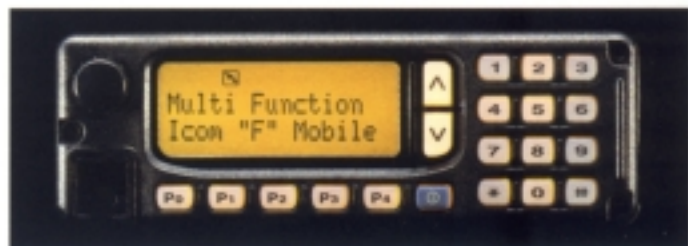
\*Optional RMK-1 and OPC-609 are required.

- **Selectable channel spacing**

(channel independent)

- **Optional RS-232C interface\***

\*Based on RS-232C; ask your local dealer for details.



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## ADDITIONAL FEATURES

- Rugged, dependable construction
- 7 customizable keys available
- Built-in CTCSS, DTCS encoder/decoder
- 5-tone encoder/decoder standard (depending on version)
- Numerous 5-tone formats available
- Answer back function for 5-tone signalling
- SmarTrunk II™ compatible with optional UT-105
- Ample 128 memory channels; can be expanded to 256 with optional EX-1761
- Password function to prevent unauthorized operation
- Maintenance-free EEPROM for memory backup
- Adjustable minimum AF level
- 51 CTCSS frequencies plus 1 programmable
- Selectable DTCS polarity
- Time-out timer, TOT penalty timer and TOT ID transmission
- Hanger function
- Normal and priority scan
- 10 scan channel groups and 2 priority channels
- 10 DTMF autodialing memories
- Temporary simplex operation on a duplex channel capability (talk around function)
- Transmit lockout (channel busy/repeater/reverse repeater)
- Automatic priority channel selection and/or receive mute release when microphone is picked up
- Powerful, external speaker (optional for some versions)
- 3 selectable transmit output powers—High, Low-2 and Low-1
- Optional AVL (Automatic Vehicle Location) system capability
- Advanced programming for PC/AT; Microsoft® Windows® 95  
Microsoft and Windows are registered trademarks of Microsoft Corporation in the U.S.A. and other countries.

## SPECIFICATIONS

## GENERAL

- Frequency coverage\*: 136–155 MHz  
146–174 MHz  
\*Varies according to versions.
- Number of channels : 128 or 16 ch × 8 banks  
256 or 16 ch × 16 banks; with EX-1761
- Type of emission : 8K50F3E (12.5 kHz; narrow)  
16K0F3E (25 kHz; wide)
- Frequency stability : ±1500 Hz
- Operating temp. range: –20°C to +55°C
- Power supply voltage: 13.2 V DC (negative ground)
- Current drain (approx.):  
Tx at 25 W : 7.0 A  
Rx max. audio : 1.2 A  
standby : 700 mA
- Antenna connector : SO-239 (50 Ω)
- Dimensions : 150(W) × 50(H) × 180(D) mm
- Weight : 1.5 kg

## TRANSMITTER

- Output power : 25 W or 10 W  
(at 13.2 V DC) (according to country)
- Modulation system : Variable reactance frequency modulation
- Max. freq. deviation : ±2.5 kHz (narrow)  
±5.0 kHz (wide)
- Spurious emissions : 0.25 μW
- Adjacent ch. power : 60 dB (narrow)  
70 dB (wide)
- Audio harmonic dist. : 5% at 40% deviation
- Residual modulation : 50 dB typical (narrow)  
55 dB typical (wide)  
(with CCITT filter)
- Mic. connector : 8-pin modular (800 Ω)

## RECEIVER

- Intermediate freq. : 1st 21.75 MHz  
2nd 455 kHz
- Sensitivity : –2 dBμV (emf)  
(at 20 dB SINAD)
- Squelch sensitivity : –6 dBμV (emf; threshold)
- Adj. ch. selectivity : 60 dB (narrow)  
70 dB (wide)
- Spurious response : 70 dB
- Intermodulation : 70 dB typical
- Audio output power : 3.5 W at 10% distortion with a  
4 Ω load
- Ext. SP connector : 2-conductor 3.5 (d) mm/4 Ω

Measurements made in accordance with ETS 300 006.  
All stated specifications are subject to change without notice or obligation.

## Supplied Accessories

- Hand microphone
  - DC power cable
  - Mounting bracket kit
  - External speaker\*
  - Fuses
- \*depending on version

## OPTIONS

- **EX-1761 MEMORY EXPANSION UNIT**
- **OPC-617 ACC CABLE**

For external terminal connection.

- **RMK-1 SEPARATION KIT**  
+ **OPC-609 SEPARATION CABLE**

For separate front panel installation (1.9 m).

- **UT-96 5-TONE UNIT**

Provides the transceiver with 5-tone decoder capabilities (supplied with some versions).

- **UT-105 SmarTrunk II™ Logic Board\***

Provides SmarTrunk II™ capabilities.

\*SmarTrunk II™ is a trademark of SmarTrunk Systems Inc.

- **UT-103 FFSK BOARD**

- **SP-5/SP-10/SP-22 EXTERNAL SPEAKERS**

- **AV-100C AVL SYSTEM CONTROLLER**

- **OPC-821 AVL SYSTEM CABLE**

- **OPC-822 INTERFACE CABLE**

- **HM-100T DTMF MICROPHONE**



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