

# IC-F510 IC-F610



The photo shows actual size.

- **Programmable 9 switches and independent AF volume knob**

The 2 pairs of up/down switches and P0–P4 switches allows you to customize switches to meet specific needs. The independent volume knob provides quick and easy operation.

- **256 channels with 16 banks**

Up to 256 channels with 10-character channel name can be stored and classified 16 banks. Further, original character can be made and displayed.

- **Built-in 5-tone, CTCSS and DTCS encoder/decoder plus DTMF autodial**

Multiple signalling systems are equipped for standard. 8 DTMF dialing memory are available. Optional UT-108 decodes DTMF with ANI functions.

- **Rugged construction**

The highly dependable aluminum die-cast chassis and polycarbonate front panel meet MIL standard for shock and vibration.

- **Advanced flash CPU**

The flash CPU is efficient for future upgrades and future compatibility with other protocols.

- **Selectable channel spacing**

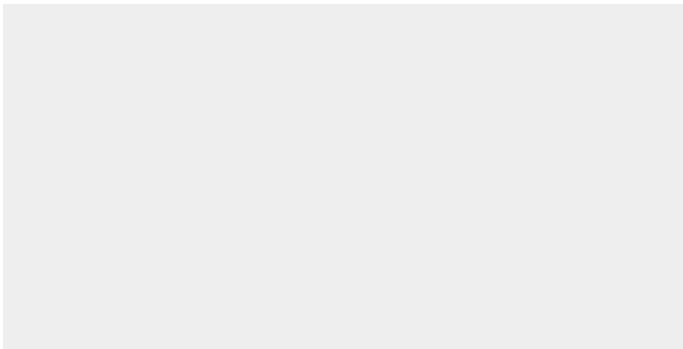
Wide and narrow switching is available for each channel independently (12.5/25kHz or 12.5/20kHz).

- **25W output power**



**ADDITIONAL FEATURES**

- **Invertible front panel for flexible setup**  
The front panel is invertible against the main unit. Always keeps the right direction of the front panel and the speaker face.
- **Large, alphanumeric display and backlit keys**
- **Audio compander provides clear audio**
- **Power on password and 'Stun' functions**
- **Microphone hanger functions**
- **10 scanning list and normal/priority scan**
- **2 types of optional voice scrambler**
- **SmarTrunkII™ and LTR® Trunking capability**



**SPECIFICATIONS**

**GENERAL**

- Frequency coverage :
  - IC-F510 136-174MHz
  - IC-F610 400-430MHz 440-490MHz 480-520MHz
- Number of channels : Max. 256 channels/16 banks
- Type of emission : 8K50F3E/16K0F3E (12.5/25kHz) 8K50F3E/14K0F3E (12.5/20kHz)
- PLL channel step : 5kHz and 6.25kHz
- Frequency stability : ±1.5kHz
- Operating temp. range : -20°C to +55°C
- Power supply voltage : 13.2V DC
- Current drain :
  - Tx at 25W 7A
  - Rx max. audio 1.2A
  - standby 300mA
- Antenna connector : SO-239 (50Ω)
- Dimensions : 140(W)×40(H)×170(D) mm
- Weight : 1.2kg

**TRANSMITTER**

- Output power : 25W (at 13.2V DC)
- Max. freq. deviation : ±5.0kHz (wide) ±2.5kHz (narrow) ±4.0kHz (middle)
- Spurious emissions : 0.25μW (below 1GHz)
- Adjacent channel power : 70dB (wide, middle) 60dB (narrow)
- Mic. connector : 8-pin modular (600Ω)

**RECEIVER**

- Sensitivity : -4dBμV typ. (emf) (at 20dB SINAD)
- Squelch sensitivity : -4dBμV typ. (threshold)
- Adjacent channel selectivity : 75dB typ. (wide, middle) 65dB typ. (narrow)
- Spurious response : 75dB
- Intermodulation : 67dB typ.
- Audio output power : 4.0W at 10% distortion/4Ω load
- Ext. SP connector : 2-conductor 3.5(d) mm/4Ω

**Applicable U.S. Military Specifications**

The IC-F510/F610 meets MIL-STD requirement and strict environmental standards for shock (MIL 810 C, D, E) and vibration (MIL 810 C, D, E).

**Supplied Accessories**

- Hand mic.  DC power cable  Fuses
- Mounting bracket kit  Key assign stickers

Measurements made in accordance with ETS 300 086. All stated specifications are typical and subject to change without notice or obligation.

**OPTIONS**

- **HM-100N/TN HAND/DTMF MICROPHONE**  
Supplied microphone. Varies with version.
- **OPC-617 ACC CABLE**  
For external terminal connection.
- **SM-25 DESKTOP MICROPHONE**  
Convenient for dispatcher, equipped monitor switch.
- **SP-5/SP-10/SP-22 EXTERNAL SPEAKERS**  
Compact and easy-to-install.  
Input impedance: 4Ω; Max. input power: 5W
- **UT-105 SmarTrunk II™ Logic Board**  
SmarTrunk II is a trademark of SmarTrunk Systems Inc.
- **UT-108 DTMF DECODER UNIT**  
Provides DTMF decode and ANI capabilities.
- **UT-109/UT-110 VOICE SCRAMBLER UNITS**  
Provides operating security. Ask your dealer for details about usable version, etc.  
UT-109: Non-rolling type. UT-110: Rolling type.
- **UT-111 LTR® Trunking UNIT**  
LTR® trunking is a registered trademark of the EFJohnson Radio Systems.



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