

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



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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.

HM-100TN



SM-25



SP-10



SP-22



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