

IC-F320 IC-F420 Specifications.

Additional Features

- Backlit keys help night operation
- 32 channels for 5-tone encoder (optional)
- Emergency call with single and repeat function
- 8 identities + group code for 5-tone decode (optional)
- Selectable digits for 5-tone decode indication
- Automatic ID transmission linked to PTT
- 51 frequencies for CTCSS (plus 1 programmable)
- Polarity selectable for DTCS
- 7 autodialing memories for DTMF
- Up to 5 character channel display
- Bank separation capability
- 5 scan channel groups
- 2 priority channels
- Automatic scan start and/or receive mute when mic. is on hook
- Automatic priority channel selection and/or mute release when mic. is off hook
- Normal and priority scan
- Scan start at power on
- CTCSS reverse burst
- Remote monitoring capability (optional UT-96 required)
- Optional PIN code input to prevent operation by unauthorized persons
- Programmable minimum level for audio output
- Talk around function (temporary simplex operation on a duplex channel)
- Time-out transmission timer
- Penalty timer
- Busy channel lockout options
- 2 selectable 'stun' functions (optional UT-96 required)
- Compact body provides easy installation
- Advanced programming for IBM® compatible PC's

General

- Frequency Coverage:
 - IC-F320 -- 136-155 MHz, 146-174 MHz
 - IC-F420 -- 400-430 MHz, 450-470 MHz OR 470-490 MHz, 490-512 MHz
- Number of channels: 32 (16 ch x 2 banks)
- Type of emission:
 - 8K0F3E (12.5 kHz/15 kHz: narrow)
 - 16K0F3E (25 kHz/30 kHz: wide)
- Frequency stability: $\pm 0.00005\%$ (5ppm)
- Operating Temperature Range: -30°C to $+60^{\circ}\text{C}$; -22°F to $+140^{\circ}\text{F}$
- Power Supply Requirement: 13.6 V DC $\pm 15\%$ (negative ground)
- Current drain (approx.):
 - Transmit
 - at 45 W: 10 A (IC-F320)
 - at 35 W: 8 A (IC-F420)
 - Receive
 - Max. audio: 700 mA
 - Standby: 200 mA
- Antenna connector: SO-239 (50)
- Dimensions: 5-1/2(W) x 1-19/32(H) x 6-11/16(D) in
- Weight: 2 lb 10 oz

Transmitter

- Output power:
 - 45 W (IC-F320)
 - 35 W (IC-F420)
- Modulation system: Variable reactance freq. mod.
- Max. frequency deviation: ± 5.0 kHz, ± 2.5 kHz narrow
- Spurious emissions: 70 db
- Adjacent ch. power: 70 dB (wide), 60 dB (narrow)
- Mic. connector: 8-pin modular (600 ohms)

Receiver

- Sensitivity (at 12 dB SINAD):
 - 0.22 μ V typical for IC-F320
 - 0.25 μ V typical for IC-F420
- Squelch sensitivity:
 - 0.22 μ V typical for IC-F320
 - 0.25 μ V typical for IC-F420
- Adjacent channel selectivity: 70 dB (wide), 60 dB (narrow)
- Spurious response: 70 dB
- Intermodulation: 65 dB
- Audio output power: 3 W typical at 5% distortion with a 4 ohm load.
- Ext. SP connector: 2-conductor 3.5 (d) mm (1/8")/4 ohms

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

Supplied Accessories

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

Options

- UT-96 5-TONE UNIT: Provides 2-tone and 5-tone decoder capabilities
- UT-105 SmarTrunk II TM Logic Board. Provides SmarTrunk II capabilities.
- SP-5 EXTERNAL SPEAKER: Large speaker for excellent audio quality. Input impedance: 4 . Max. input power: 5 W
- SP-10 EXTERNAL SPEAKER: Compact and easy-to-install. Input impedance: 4 . Max. input power: 5 W

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