

IC-F320
IC-F420

The photo shows actual size.

● Tough rugged construction

The highly dependable diecast aluminum chassis and polycarbonate front panel are resistant to impact.

● Powerful 45 W of output power

A powerful 45 W (35 W for the IC-F420) of output power provides reliable long distance communications when you need it.

● SmarTrunk II™ compatible*

These transceivers allow you to take advantage of all the benefits of SmarTrunk II™ trunking systems*. In addition, CTCSS and DTCS encoder/decoder and DTMF, 2-tone and 5-tone encoder are standard. And, 2-tone and 5-tone decoder functions are optionally available to suite a wide variety of signalling requirements.

*Optional UT-105 SmarTrunk II™ Logic Board is required; SmarTrunk II™ is a trademark of SmarTrunk Systems Inc.

● Selectable channel spacing

Versions are available that allow wide/narrow switching independently for each channel.

● Programmable key assign function

4 switches provide simple operation yet their functions can be changed during programming, providing flexibility to suit your specific needs.

● Alphanumeric display

ADDITIONAL FEATURES

- Backlit keys help night operation
- 32 channels for 5-tone encoder
- 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 unauthorised persons
 - Programmable minimum level for audio output
 - Talk around function (temporary simplex operation on a duplex channel)
 - Time-out timer
 - Time-out ID transmission
 - Penalty timer
 - Transmit lockout (channel busy / repeater / reverse repeater)
 - 2 selectable 'stun' functions (optional UT-96 required)
 - Compact body provides easy installation
 - Advanced programming package for IBM® compatible PC's
- IBM® is a registered trademark of International Business Machines.

SPECIFICATIONS**GENERAL**

• Frequency coverage*	136–155 MHz	146–174 MHz
IC-F320	400–430 MHz	450–470 MHz
IC-F420	470–490 MHz	490–512 MHz
	*Varies according to versions.	
• Number of channels	32 (16 ch × 2 banks)	
• Type of emission	BK50F3E (12.5 kHz/15 kHz; narrow) 16K0F3E (25 kHz/30 kHz; wide)	
• Frequency stability	+0.0005%	
• Operating temp. range	-22°F to +140°F	
• Power supply voltage	13.6 V DC (negative ground)	
• Current drain (approx.)		
Tx at 45 W	10 A (IC-F320)	
at 35 W	8 A (IC-F420)	
Rx max. audio	700 mA	
standby	200 mA	
• Antenna connector	SO-239 (50 Ω)	

TRANSMITTER

• Output power	: 45 W (IC-F320) 35 W (IC-F420)
• Modulation system	: Variable reactance freq. mod.
• Max. freq. deviation	: ±0.0 kHz (wide) ±2.5 kHz (narrow)
• Spurious emissions	: 70 dB
• Adjacent ch. power	: 70 dB (wide) 60 dB (narrow)
• Mic. connector	: 8-pin modular (600 Ω)

RECEIVER

• Intermediate freq.	: 1st 31.06 MHz (IC-F320) 48.35 MHz (IC-F420)
	2nd 450 kHz

• Sensitivity	: 0.22 μV (typ.; IC-F320) at 12 dB SINAD 0.25 μV (typ.; IC-F420)
• Squelch sensitivity	: 0.22 μV (typ.; IC-F320) 0.25 μV (typ.; IC-F420)
• Adj. ch. 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 Ω load
• Ext. SP connector	: 2-conductor 3.5 (d) mm (1/8") /4 Ω

Supplied Accessories

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

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

OPTIONS

- **UT-96 5-TONE UNIT**
Provides the transceiver with 2-tone and 5-tone decoder capabilities
- **UT-105 SmarTrunk II™ Logic Board**
Provides SmarTrunk II™ capabilities.
*SmarTrunk II™ is a trademark of SmarTrunk Systems Inc.

- **SP-5 EXTERNAL SPEAKER**
Large speaker provides good audio quality.
Input impedance: 4 Ω; Max. input power: 5 W
- **SP-10 EXTERNAL SPEAKER**
Compact and easy-to-install.
Input impedance: 4 Ω; Max. input power: 5 W

UT-96



SP-5



SP-10



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