IC-F9011T

VHF transceiver with full keypad

IC-F9011S

VHF transceiver with simple keypad

IC-F9011B

VHF transceiver without LCD and front keypad

IC-F9021T

UHF transceiver with full keypad

IC-F9021S

UHF transceiver with simple keypad

IC-F9021B

UHF transceiver without LCD and front keypad

Featured for the First Responder!

512 Channels/ 128 Zones

P25 Conventional & Trunking

AES/DES Encryption (Option)

Enhanced Vocoder Ready

6 W Output Power

IP67 Dust & Waterproof

Full Dot-matrix LCD*

4-way Cross Keypad* *IC-F9011T/S only.







ch-0111







Ready for: P25 conventional, P25 trunking and analog conventional. All in one radio!







VHF & UHF P25 CONVENTIONAL & TRUNKED TRANSCEIVERS

IC-F9011T

IC-F9011S

IC-F9011B

VHF transceiver without LCD and front keypad

IC-F9021T

LIHE transceiver with full keynad

IC-F9021S

UHF transceiver with simple keypad

IC-F9021B

UHF transceiver without LCD and front keypad

P25 Conventional & Trunking Features



P25 Conventional and Trunking

The IC-F9011 series has P25 conventional and trunking capabilities as standard. You can assign individual channels to analog conventional, P25 conventional or P25 trunking, all within one radio.

Interoperability

The IC-F9011 series conforms to the standard specifications for TIA/EIA TSB-102, CAAB, Digital C4FM Transceiver Performance Recommendations and provides interoperability with other brand P25 equipment for public safety applications.

Digital/Analog mixed mode operation

The mixed mode operation allows you to detect and receive both analog FM and P25 digital modes and to transmit either mode depending on programming.

Individual ID and talkgroup ID

The IC-F9011T/S and IC-F9021T/S have a 100 individual ID and 250 talkgroup ID memories. Use the display to visually select the person or group you're going to call.

Optional AES/DES encryption

The IC-F9011 series provides AES and/or DES encryption for secure conversation with the optional UT-125 AES/DES encryption unit or UT-128 DES encryption unit. Versions certified to FIPS 140-2 Level 1 for AES encryption are available.

Enhanced vocoder ready

Using the DVSI's AMBE+ 2^{TM} vocoder, the IC-F9011 series is enhanced vocoder ready.

OTAR (Over-the-Air-Rekeying)

The IC-F9011 series supports P25 OTAR for changing encryption keys over the air.

4-way navigation cross keypad

The 4-way cross keypad* on the front panel provides an intuitive user interface.

 * IC-F9011T/S and IC-F9021T/S only.

Encryption button and 3-position zone select switch

On the top of the radio, there is a toggle switch to turn the encryption on or off* and the 3 position switch allows you to quickly select an operating zone*.

* According to the programming setting.

Large dot-matrix display

The IC-F9011T/S and F9021T/S have a large dot-matrix display to show various operating status at a glance. At the bottom

line of the display, the key indicator shows the assigned functions to the [I], [II] and [III] buttons for more efficient operation.



Internal clock setting example

Slim dimensions

At only 41.8 mm (1.65 in) thick, the IC-F9011 series is designed as a solid and ergonomic shape that will fit comfortably in your hand.

6 W RF output power

The IC-F9011T/S/B provides 6 W* of high output power. The supplied 3040 mAh (typ.) Li-Ion battery pack, BP-254, provides 9 hours* of operating time.

* 5 W for IC-F9021T/S/B. Typical operation with Tx: Rx: standby=5:5:90.

1000 mW audio output power

The built-in BTL amplifier doubles the audio output power and delivers loud audio to receive all calls under noisy environments. In addition, even when using an optional speaker microphone, the BTL amplifier output is also available from the external accessory connector which increases the audio output via the microphone.

IP67 dust-tight and waterproof protection

The IC-F9011 series has dust-tight and waterproof protection equivalent to IP67 and is tested to demanding MIL-STD 810 requirements. IP67 waterproof protection means the IC-F9011 series can be submerged in 1 meter of water for 30 minutes. The radio can withstand rugged use even under harsh weather conditions.

14-pin accessory connector

The new 14-pin accessory connector enhances the IC-F9011 series performance and capabilities. It has reserved pins for programmable key inputs.



Tactical group function

The tactical group function allows you to copy memory channels to the tactical zone

and temporarily regroup memory channels. Using the optional zone copy cable, memory channels in the tactical zone can be transferred from a master radio to other radios.

Abundant scanning settings

The dual priority scan monitors two primary channels alternately, while scanning other channels. The mode dependent scan function automatically changes the scan list according to the operating channel. The talk back function with timer beep, TX channel and cancel channel settings allow you to preset the transmission channel when you push the PTT button during scanning operation or cancel the scanning.

Optional Man Down unit

With the optional Man Down unit, UT-124R, the IC-F9011 series automatically sends an emergency signal when the radio is left in a horizontal position for a preset time.

Other features

- Wide frequency coverage
- 512 channels/128 zones
- Built-in audio compander*1
- Built-in inversion type voice scrambler*1
- VOX function for hands-free operation
- Optional waterproof speaker microphone, HM-184
- Talk around function
- CTCSS and DTCS encoder and decoder*1
- DTMF autodial*1
- 2-Tone encoder and decoder*1 and MDC 1200 compatible*1
- *1 Analog mode only

IC-F9011T/S/B · IC-F9021T/S/B

SPECIFICATIONS

	IC-F9011T/S/B	IC-F9021T/S/B	
GENERAL			
		380-470 MHz	
Frequency coverage	136-174 MHz	400-470 MHz	
		450-520 MHz	
Number of channels	Max. 512 channels/128 zones		
Type of emission	16K0F3E, 11K0F3E, 8K10F1E/F1D		
Channel spacing	12.5/15/30 kHz 12.5/25 kHz		
Power supply requirement	7.2 V DC nominal		
Current drain (approx.)			
Tx High	2.2 A (at 6 W)	2.1 A (at 5 W)	
Rx Max. audio	800 mA (Backlight off)	800 mA (Backlight off)	
Stand-by	300 mA (Backlight off)	300 mA (Backlight off)	
Antenna impedance	50 Ω		
Operating temperature range	-30 °C to +60 °C; -22 °F to +140 °F		
Dimensions (W × H × D)	58.6 × 167 × 41.8 mm; 2.3 × 6.6 × 1.7 in		
(Projections not included)	(With BP-254)		
Weight (approx.)	533 g; 1.17 lb (With BP-254)		
TRANSMITTER			
Output power	6 W, 2 W, 1 W (Hi, L2, L1) 5 W, 2 W, 1 W (Hi, L2, L1		
Max. frequency deviation	±5.0/2.5 kHz (Wide/narrow)		
Maximum pattern	±2.85 kHz (Digital)		
Frequency stability	±1.0 ppm		
Spurious emissions	75 dB typ.	80 dB typ.	
FM Hum and noise	45/40 dB typ. (Wide/narrow)		
Audio harmonic distortion	2% typ. (40% deviation)		
Ext. microphone connector	14-pin multi-connector/2.2 kΩ		
RECEIVER			
Sensitivity (Analog)	0.25 μV typ. (at 12 dB SINAD)		
(Digital)	0.30 μV typ. (at 5% BER)		
Adjacent channel selectivity			
(TIA/EIA603B)	75/48 dB typ. (W/N)	75/50 dB typ. (W/N)	
(TIA/EIA603)	80/70 dB typ. (W/N)	76/70 dB typ. (W/N)	
(digital)	60 dB typ.	60 dB typ.	
Spurious response	80 dB typ.		
Intermodulation	75 d	B typ.	
Hum and noise	50/45 dB typ. (W/N) 50/44 dB typ. (W/N)		
Audio output power	1000 mW typ. (at 10% distortion with an 8 Ω load)		
Ext. speaker connector	14-pin multi-connector/8 Ω		
Measurements made in accordant	e with TIA/EIA-102 (Digital), T	IA/EIA-603B (Wide/narrow).	

All stated specifications are subject to change without notice or obligation.

* 25 kHz bandwidth is no longer available for FCC Part 90 licensees for USA versions. Ask

Applicable U.S. Military Specifications & IP Rating

MIL 810G		
Method	Procedure	
500.5	I, II	
501.5	I, II	
502.5	I, II	
503.5	I-C	
505.5	I	
506.5	I, III	
507.5	II	
509.5	_	
510.5	I	
512.5	I	
514.6	I	
516.6	I, IV	
	Method 500.5 501.5 502.5 502.5 503.5 505.5 506.5 507.5 509.5 510.5 512.5 514.6	

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

Ingress Protection Standard (IC-F9011/F9021 and BP-254) **Dust & Water** IP67 (Dust-protection and waterproof protection)

Supplied accessories: (May differ according to version)

· Battery pack, BP-254 Belt clip, MB-115

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Antenna

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OPTIONS

Some options may not be available in some countries. Please ask your dealer for details



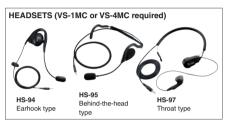
Battery packs and cases	Туре	Capacity	Operating Time*
BP-254	Rechargeable Li-ion	2900 mAh (min.) 3040 mAh (typ.)	9 hours (approx.)
BP-237	LR6 (AA) batteries × 6		-

* Tx: Rx: standby=5:5:90. BP-237 is IPX4 water resistant.





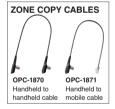














ANTENNAS • **FA-S25V**: 136–148 MHz • FA-S65V: 148–160 MHz • FA-S66V: 160-174 MHz

• FA-S30U: 380-430 MHz • FA-S58U: 430–470 MHz FA-S75U: 470-520 MHz

CUT ANTENNAS

FA-S67VC: 136-174 MHz

BELT CLIP
• MB-115: Alligator type. Same as supplied.

INTERFACE CABLE OPC-1862:

PC (USB) interface cable.

CHARGER ADAPTER • AD-110

• FA-S76UC: 380–520 MHz
AD-110 charger adapter is supplied with the BC-119NS or BC-121NS.

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Your local distributor/dealer:

your dealer if you need 25 kHz bandwidth.