



VHF P25 CONVENTIONAL & TRUNKED TRANSCEIVERS

IC-F9011T Full keypad

IC-F9011S Simple keypad

IC-F9011B Basic (No LCD, No front keypad)

Featured for the First Responder!



512 Channels/
128 Zones

P25 Conventional
& Trunking

AES/DES
Encryption (Option)

Enhanced
Vocoder Ready

6W Output
Power

IP57
Dust & Waterproof

Full Dot-matrix
LCD*

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



IP57



DIGITAL

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



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Full keypad

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P25 Conventional & Trunking Features



P25 VHF Conventional and Trunking

The IC-F9011T/S/B has P25 VHF 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-F9011T/S/B 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/B has 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-F9011T/S/B 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 planned for future release.

Enhanced vocoder ready

Using the DVSI's AMBE+2™ vocoder, the IC-F9011T/S/B is enhanced vocoder ready.

OTAR (Over-the-Air-Rekeying)

The IC-F9011T/S/B will support P25 OTAR in future.

4-way navigation cross keypad

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

* IC-F9011T/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 has 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.

* IC-F9011T/S only.



Internal clock setting example

Slim dimensions

At only 41.8mm (1²¹/₃₂ in) thick, the IC-F9011T/S/B is designed as a solid and ergonomic shape that will fit comfortably in your hand.

6W RF output power

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

* Typical operation with Tx: Rx: standby=5:5:90.

1000mW 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.

IP57 dust-tight and waterproof protection

The IC-F9011T/S/B has dust-tight and waterproof protection equivalent to IP57 and is tested to demanding MIL-STD 810 requirements. IP57 waterproof protection means the IC-F9011T/S/B can be submerged in 1 meter of water for 30 minutes. The IC-F9011T/S/B can withstand rugged use even under harsh weather conditions.

14-pin accessory connector

The new 14-pin accessory connector enhances the IC-F9011T/S/B's 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-F9011T/S/B automatically sends an emergency signal when the radio is left in a horizontal position for a preset time.

Other features

- Wide frequency coverage (136–174MHz)
- FM wide/narrow channel spacing*¹
- 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 (Available in future)

*¹ Analog mode only

SPECIFICATIONS

GENERAL

- Frequency range : 136-174MHz
- Number of channels : Max. 512 channels/128 zones
- Channel spacing : 15kHz/30kHz (analog), 12.5kHz (digital)
- PLL channel step : 2.5kHz, 3.125kHz
- Antenna impedance : 50Ω
- Operating Temp. range : -30°C to +60°C ; -22°F to +140°F
- Power supply requirement : 7.2V DC
- Current drain (at 7.2V DC; approx.):
 - Tx High (6W) 2.2A
 - Rx Max. audio 800mA (Backlight off)
 - Stand-by 300mA (Backlight off)
- Dimensions (WxHxD) : 58.6x167x41.8 mm; (projections are not included) 2⁹/₁₆ x 6⁹/₁₆ x 1²¹/₃₂ in (with BP-254)
- Weight (approx.) : 533g; 1.17lb (with BP-254)

Measurements made in accordance with TIA/EIA-102 (Digital), TIA/EIA-603B (Wide/narrow). All stated specifications are subject to change without notice or obligation.

TRANSMITTER

- Output power : 6W
- Max. frequency deviation : ±5.0/2.5kHz (Wide/narrow) Maximum pattern ±2.85kHz (Digital)
- Frequency error : ±1.0ppm
- Spurious emissions : 75dB typ.
- Adjacent channel power : 70/60dB min. (Wide/narrow) 67dB min. (Digital)
- FM hum and noise : 45/40dB typ. (Wide/narrow)
- Audio harmonic distortion : 2% typ. (40% deviation)
- Ext. microphone connector: 14-pin multi connector/2.2kΩ

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810 F	
	Method	Procedure
High Temperature	501.4	I, II
Low Temperature	502.4	I, II
Temperature Shock	503.4	I
Rain	506.4	I, III
Humidity	507.4	-
Dust	510.4	I
Immersion	512.4	I
Vibration	514.5	I
Shock	516.5	I, IV

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

Ingress Protection Standard	
Dust & Water	IP57 (Dust-protection and waterproof protection)

RECEIVER

- Sensitivity :
 - Analog 0.25μV typ. (at 12dB SINAD)
 - Digital 0.30μV typ. (at 5% BER)
- Squelch sensitivity : 0.25μV typ. (at threshold)
- Adjacent Ch. selectivity :
 - Analog (TIA/EIA603B) 75/48dB typ. (Wide/narrow)
 - (TIA/EIA603) 80/70dB typ. (Wide/narrow)
 - Digital 60dB typ.
- Spurious response : 80dB typ.
- Intermodulation : 75dB typ.
- Hum and noise ratio : 50/45dB typ. (Wide/narrow)
- Audio output power : 1.0W typ. (at 10% distortion with an 8Ω load)
- External speaker connector: 14-pin multi connector/8Ω

Supplied Accessories

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

OPTIONS

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



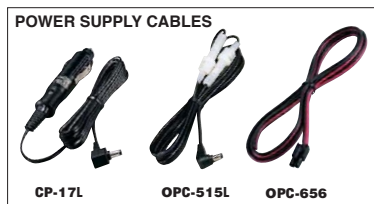
BP-254 7.4V/3040mAh Li-Ion BATTERY PACK Provides 9 hours operating time* (approx.).
BP-237 BATTERY CASE
 AA (LR6)x6 alkaline cells. BP-237 is water-resistant, equivalent to IPX4.
 * Tx: Rx: standby=5:5:90.



BC-119N DESKTOP CHARGER + AD-110 CHARGER ADAPTER + BC-145A AC ADAPTER
 Charges the BP-254. Charging time: approx. 4 hours when BP-254 is attached.



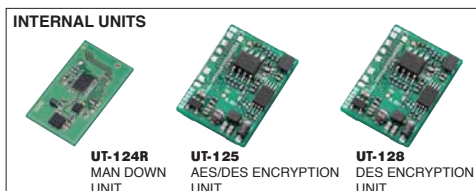
BC-121N MULTI-CHARGER + AD-110 CHARGER ADAPTER + BC-157 AC ADAPTER
 Charges up to 6 battery packs (Six AD-110s are required). Charging time: approx. 4 hours when BP-254 is attached.



CP-17L : Cigarette lighter cable for use with BC-119N.
OPC-515L : DC Power supply cable for use with BC-119N.
OPC-656 : DC Power supply cable for use with BC-121N.



HM-184 : Rugged type speaker-microphone. Equivalent to IP57.



UT-124R : Automatically sends an emergency signal when the transceiver is left in a horizontal position for a preset time.
UT-125 : Provides AES and DES encryption capabilities.
UT-128 : Provides DES encryption capabilities. (Coming soon)

Optional internal unit should be installed by an authorized Icom service center only.



MB-115 : Alligator type to fit up to 60mm (2 1/4 in) width belt. Same as supplied.



ANTENNAS
 • **FA-S25V** : 136-148MHz
 • **FA-S65V** : 148-160MHz
 • **FA-S66V** : 160-174MHz
CUT ANTENNA
 • **FA-S67VC** : 136-174MHz (Coming soon)

ZONE COPY CABLES
 • **OPC-1870**: Handheld to handheld cable (Coming soon)
 • **OPC-1871**: Handheld to mobile cable (Coming soon)

INTERFACE CABLE
 • **OPC-1862** : PC (USB) interface cable.

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