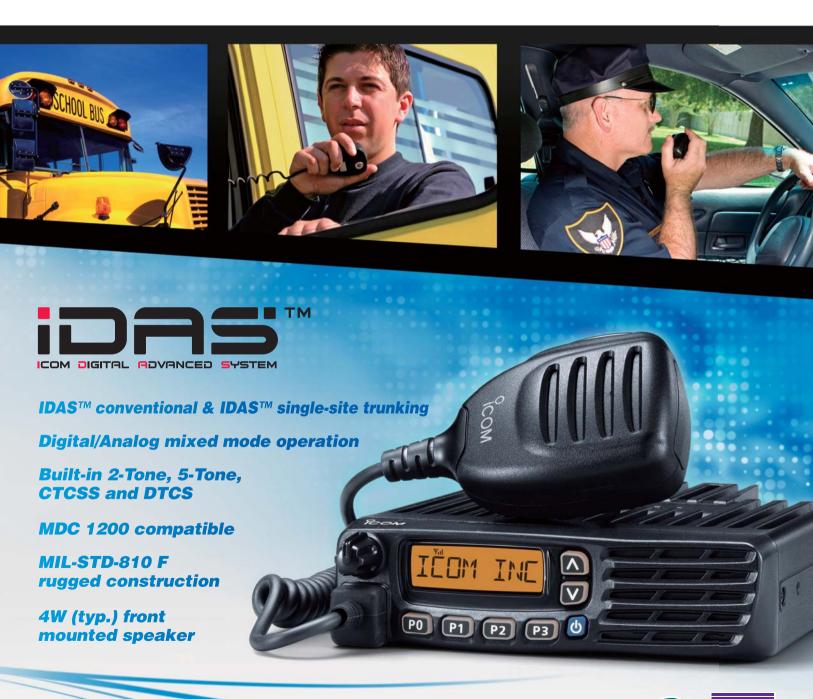


VHF AND UHF DIGITAL/ANALOG TRANSCEIVERS





Everything you'd expect in a business radio ... Plus Digital!







More than Just Smooth Digital Migration!

128 channels with 8 zones

Ample 128 channel capacity allows most companies plenty of room to grow. Up to 8 zones lets you group together channels in logical fashion.

COM

Built military rugged!

The tough aluminum die-cast chassis and polycarbonate front panel have been tested to the MIL standard 810 F.

Compact hand microphone

Select from 5 levels of mic gain, for clearer transmission.

GPS receiver connection

With optional D-SUB 25-pin ACC cable OPC-2078, an external GPS receiver or PC can be connected.



Photo includes optional OPC-2078.

8-character LCD

An 8-character alphanumeric LCD with user-friendly icons shows a variety of information and operating status such as caller's name, received message, etc.

IDAS[™] digital mode operation

The IC-F5121D series provides NXDN™ CAI-based IDAS digital mode operation. It is also compatible with IDAS multi-site conventional and IDAS single-site trunking. The following IDAS features are programmable.

- PTT ID Individual/Talkgroup list (Max. 500)
- RAN (Radio Access Number)
- Status • SDM (Short Data Message)
- Radio check (RX) • Call alert
- Stun/kill/revive (RX) Remote monitor
 - Emergency (No ACK)
- Digital voice scrambler

(RX)

• GPS data (PC and software required to show received position data)

VHF & UHF DIGITAL/ANALOG TRANSCEIVERS



Large programmable buttons

P0 P1 P2

P3

For easy access to often used functions, P0-P3 buttons are programmable to meet specific needs. Buttons and LCD display are backlit for night time opeartion.

Built-in 2-Tone and 5-Tone (Analog mode)

2-Tone and 5-Tone signalings give you selective calling, quiet stand-by and other convenient functions with programming. The stun/kill functions disable a radio over the air and the revive function restores the stunned radio.

MDC 1200 compatible (Analog mode)

The following MDC features are available with the built-in MDC signaling.

- PTT ID
- Radio check (RX) • Emergency (No ACK) • Stun/Revive (RX)
- 500 alias table (Max.)

Scan features

The priority scan allows you to monitor one or two priority channels while scanning other non-priority channels. The TX channel and talk back functions allow you to make a quick response while scanning.

Powerful, front-facing speaker

4 watts (typ.) front facing speaker delivers clear and loud audio throughout a vehicle's cabin. Digital modulation adds distinct clarity to received voices.

Lone worker function

When the radio is not operated for a preset period, a warning beep will sound, alerting the radio user to check in. If the radio user does not check in before the preset time runs out, then the radio automatically sends out an emergency signal.

Other features (* = analog only)

- CTCSS/DTCS encoder/decoder*
- 8 DTMF autodial memories
- Microphone hanger action programmable
- Optional DTMF microphone (HM-152T)
- PC programmable
- Power-on password function
- Time out timer
- Talk around function
- Nuisance delete function*
- Forced narrow function*



The IC-F5121D series : A multitude of advantages because it's IDAS™

Advantage 1

Digital/analog mixed mode

The IC-F5121D series can receive both analog mode and digital mode signals on a single channel and automatically selects the received mode to reply to the received call, while the talk back timer remains. It's a smart way to grow into digital radio – at your own pace, as your budget and comfort allow.

Advantage 2 Digital and analog individual/group call



The IC-F5121D series allows you to call individual or group users. The radio automatically sends own ID number when the PTT button is held down. The alias name or individual/group ID is displayed on the LCD while receiving a message allowing you to identify who is calling.

Advantage 3

Status message and short data message

Status message example

Preprogrammed status comments are displayed to match the status num-

Short data message example



The display shows longer messages by automatic vertical scrolling.

Up to 100 status conditions can be set and sent with voice call. Also, you can request another IDAS radio to send their status and receive it.

Up to 100-character of short data message can be sent and received. To send more than 9-character short data message, PC connection is required.

Advantage 4

GPS capability



When used with an external GPS receiver, the IC-F5121D series can transmit accurate position data for use with vehicle management applications.

Advantage 5

Multi-site conventional mode



When using the IC-F5121D series in IDAS multi-site conventional mode, the IC-F5121D can communicate with other IDAS radio users working with other repeater sites and/or virtual radio/PC dispatch stations on the IDAS network.

Advantage 6

IDAS single-site trunking



The IC-F5121D series can be used in an IDAS single-site trunking system. The IDAS trunking system is a distributed system with no dedicated control channel,

so more voice traffic channels are available

for increased system capacity.

All advantages shown represent possible system configurations. Ask your Icom dealer to configure an IDAS system that works best for you. *Note: Private IP Network or VPN Tunnels through the Internet with static endpoints.

SPECIFICATIONS

	IC-F5121D	IC-F6121D
GENERAL		
Frequency coverage	136–174MHz	400–470MHz
		450–512MHz
Number of channels	128 channels (8 zones)	
Type of emission		3E, 4K00F1E/F1D
Channel spacing	6.25/15/30kHz,	6.25/12.5/25kHz
PLL channel step		25kHz
Power supply requirement	13.6	V DC
Current drain (approx.)		
Tx High (50W/45W)	10A	11A
Rx Max. audio	1.2A	1.2A
Standby	300mA	300mA
Antenna impedance		O-239)
Operating temperature range		–22°F to +140°F
Dimensions (W×H×D)		167.5mm;
(Projections not included)	5.91×1.5	7×6.59in
Weight (approx.)	1.1kg	; 2.4lb
TRANSMITTER		
Output power (at 13.6V DC)	50W, 25W, 5W (Hi, L2, L1)	45W, 25W, 4.5W (Hi, L2, L1)
Max. frequency deviation	±5.0kHz/±2.5kl	Hz (Wide/Narrow)
Frequency stability	±1.0	ppm
Spurious emissions	72dB min.	70dB min.
FM Hum and noise	46/40dB typ. (Wide/Narrow)	
Audio harmonic distortion	3%	typ.
(AF 1kHz 40% deviation)		
Ext. microphone impedance	600Ω (8-pi	n modular)

Measurements made in accordance with TIA-603 (analog), EN301 166 (digital). All stated specifications are subject to change without notice or obligation.

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

HAND MICROPHONES





	IC-F5121D	IC-F6121D
RECEIVER		
Sensitivity (at 12dB SINAD)	0.25µ	IV typ.
(at 5% BER)	0.18µV typ.	
Adjacent channel selectivity	80/70dB typ. (W/N),	75/65dB typ. (W/N),
	65dB typ. (digital)	60dB typ. (digital)
Spurious response rejection	70dE	3 min.
Intermodulation rejection	75dB ty	p. (W/N),
	70dBμV em	nf typ. (digital)
Hum and noise	45/40dB	typ. (W/N)
Audio output power	4W	typ.
(at 5% distortion, 4Ω load)		
Ext. speaker connector	2-conductor 3.5	(d) mm (1⁄8″)/4Ω
Audio output power (at 5% distortion, 4Ω load)	4W	typ.

Applicable U.S. Military Specifications

Standard	MIL 810F		
	Method	Procedure	
Low Pressure	500.4	I, II	
High Temperature	501.4	I, II	
Low Temperature	502.4	I, II	
Temperature Shock	503.4	I	
Solar Radiation	505.4	I	
Humidity	507.4	-	
Settling Dust	510.4	III	
Vibration	514.5	I	
Shock	516.5	I, IV	

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

Supplied Accessories

• Hand microphone (HM-152) • DC power cable

Microphone hanger

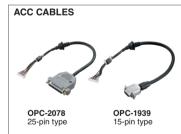
Mounting bracket kit

Key assign stickers



SM-26





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