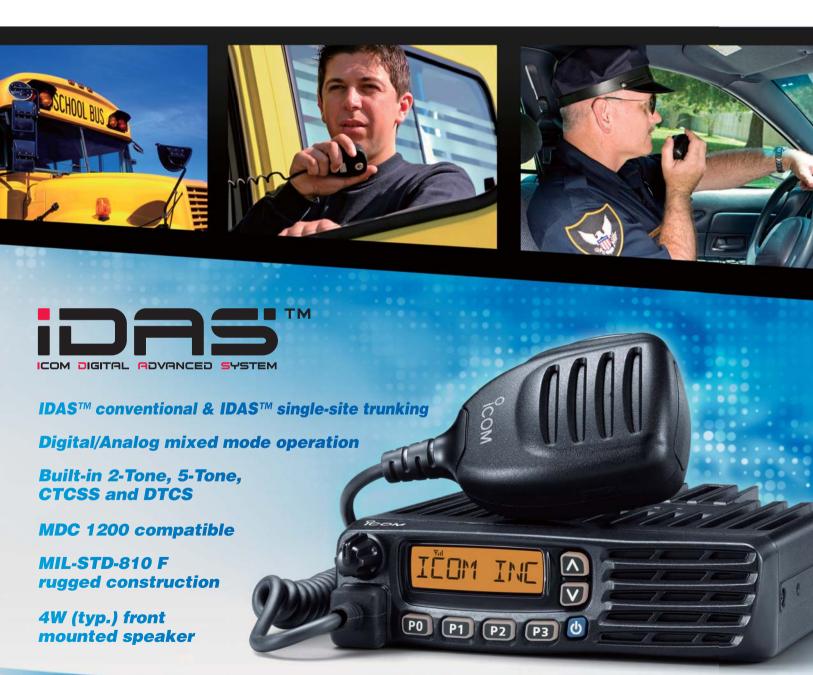








Everything you'd expect in a business radio ... Plus Digital!







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.

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.





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.

Large programmable buttons

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.

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.

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)
- Call alert Radio check (RX)
- Stun/kill/revive (RX) Remote monitor (RX) Emergency (No ACK)
- Digital voice scrambler
- GPS data (PC and software required to show received position data)

VHF & UHF DIGITAL/ANALOG TRANSCEIVERS

IC-F5121D IC-F6121D

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.

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*

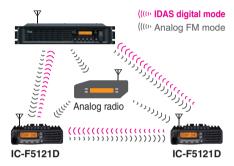
TX: Transmit, RX: Receive



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.

IC-F5121D • IC-F6121D

SPECIFICATIONS

	IC-F5121D	IC-F6121D
GENERAL		
Frequency coverage	136-174MHz	400-470MHz
		450-512MHz
Number of channels	128 channels (8 zones)	
Type of emission	16K0F3E, 11K0F3E, 4K00F1E/F1D	
Channel spacing	6.25/15/30kHz, 6.25/12.5/25kHz	
PLL channel step	2.5/3.125kHz	
Power supply requirement	13.6V DC	
Current drain (approx.)		
Tx High (50W/45W)	10A	11A
Rx Max. audio	1.2A	1.2A
Standby	300mA	300mA
Antenna impedance	50Ω (SO-239)	
Operating temperature range	-30°C to +60°C ; -22°F to +140°F	
Dimensions (W×H×D)	150×40×167.5mm;	
(Projections not included)	5.91×1.57×6.59in	
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/±2.5kHz (Wide/Narrow)	
Frequency stability	±1.0ppm	
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-pin modular)	

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

	IC-F5121D	IC-F6121D
RECEIVER		
Sensitivity (at 12dB SINAD)	0.25μV 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	70dB min.	
Intermodulation rejection	75dB typ. (W/N),	
	70dBµV emf 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 $(1/8")/4\Omega$	

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 Microphone hanger

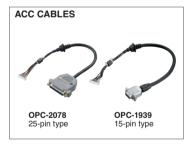
- Hand microphone (HM-152) DC power cable
 - Key assign stickers
- Mounting bracket kit

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









lcom, Icom Inc. and the Icom Iogo are registered trademarks of Icom Incorporated (Japan) in the United States, the United Kingdom, Germany, France, Spain, Russia, Japan and/or other countries. NXDN is a trademark of Icom Incorporated and Kenwood Corporation. IDAS and IDAS logo are trademarks of Icom Incorporated. All other trademarks are the properties of their respective holders.

Icom America Inc. 2380 116th Avenue NE.

Bellevue, WA 98004, U.S.A. Phone: +1 (425) 454-8155 Fax: +1 (425) 454-1509 E-mail : sales@icomamerica.com
URL : http://www.icomamerica.com

Icom Canada

Glenwood Centre #150-6165 Highway 17, Delta, B.C., V4K 5B8, Canada Phone: +1 (604) 952-4266 : +1 (604) 952-0090 F-mail : info@icomcanada.com : http://www.icomcanada.com

Icom (Australia) Pty. Ltd.

Unit 1 / 103 Garden Road, Clayton, VIC 3168 Australia Phone: +61 (03) 9549 7500 Fax: +61 (03) 9549 7505 E-mail : sales@icom.net.au URL : http://www.icom.net.au

Icom New Zealand

ICOM INC. 1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

146A Harris Road, East Tamaki. Auckland, New Zealand Auckland, New ∠ealand Phone : +64 (09) 274 4062 Fax : +64 (09) 274 4708 E-mail : inquiries@icom.co.nz URL : http://www.icom.co.nz

Icom (Europe) GmbH

Communication Equipment Auf der Krautweide 24 65812 Bad Soden am Taunus, Germany Phone: +49 (6196) 76685-0 Fax: +49 (6196) 76685-50 E-mail : info@icomeurope.com
URL : http://www.icomeurope.com

Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer" Bajos A 08174, Sant Cugat del Valles, Barcelona, Spain Phone: +34 (93) 590 26 70

Fax : +34 (93) 589 04 46 E-mail : icom@icomspain.com URL : http://www.icomspain.com

Icom (UK) Ltd.

Blacksole House, Altira Park Herne Bay, Kent, CT6 6GZ, U.K.
Phone: +44 (01227) 741741
Fax : +44 (01227) 741742
E-mail: info@icomuk.co.uk URL: http://www.icomuk.co.uk

Icom France s.a.s.

Zac de la Plaine, 1 Rue Brindejonc des Moulinais, BP 45804, 31505 Toulouse Cedex 5, France Phone: +33 (5) 61 36 03 03 Fax : +33 (5) 61 36 03 00 E-mail : icom@icom-france.com
URL : http://www.icom-france.com

Icom Polska

81-850 Sopot, ul. 3 Maja 54, Poland Phone : +48 (58) 550 7135 Fax : +48 (58) 551 0484 E-mail : icompolska@icompolska.com.pl URL: http://www.icompolska.com.pl

Asia Icom Inc.

ASIA ICOTT THE.

FROM 18 Sec. 1 Cheng-Teh Road,
Taipei, Taiwan, R.O.C.
Phone: +886 (02) 2559 1899
Fax: +886 (02) 2559 1874
E-mail: sales@asia-icom.com
URL: http://www.asia-icom.com

www.icom.co.jp/world

Beijing Icom Ltd.

10C07, Long Silver Mansion, No.88, Yong Ding Road, Haidian District, Beijing, 100039, China Phone: +86 (010) 5889 5391/5392/5393 Fax: +86 (010) 5889 5395 E-mail: bjicom@bjicom.com URL: http://www.biicom.com

Your local distributor/dealer:

Count on us!