

SPECIFICATIONS

	IC-F5123D	IC-F6123D
GENERAL		
Frequency coverage	136-174MHz	350-400MHz 400-480MHz 450-520MHz
Number of channels	128 channels (8zones)	
Type of emission	16K0F3E, 14K0F3E, 11K0F3E, 8K50F3E, 8K30F1E/D, 4K00F1E/D	
Channel spacing	25/20/12.5/6.25kHz	
PLL channel step	2.5/3.125kHz	
Power supply requirement	13.6V DC	
Current drain (approx.)		
Tx	60W 30W	12A 6A
Rx	Max. audio Standby	1.2A 300mA
Antenna impedance	50Ω (SO-239)/BNC	
Operating temperature range	-30°C to +60°C ; -22°F to +140°F	
Dimensions (WxHxD) (Projections not included)	150x40x167.5mm; 5.91x1.57x6.59in	
Weight (approx.)	1.1kg/2.4lb	
TRANSMITTER		
Output power (at 13.6V DC)	60W (Programmable)	
IC-F5123D/IC-F6123D	10-30W (Programmable)	
IC-F5123D (30W)/IC-F6123D (30W)		
Max. frequency deviation	±5.0kHz/±2.5kHz	
Frequency stability	±1.0ppm	
Spurious emissions	75dB / 0.25μV (≤ 1GHz) 1.0μV (> 1GHz)	
Adjacent channel power	70/60dB	
Audio frequency response	+1dB to -3dB of 6dB/octave range from 300Hz to 3000Hz/2550Hz	
FM Hum and noise	55/50dB	
Audio harmonic distortion	3% (AF 1kHz 40% deviation)	
FSK error	5% Max. (Digital)	
Ext. microphone impedance	600Ω (8-pin modular)	

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

HAND MICROPHONES

HM-152 HM-152T DTMF microphone HM-148G Heavy duty microphone HM-148T Heavy duty microphone with DTMF keypad

ACC CABLES

OPC-2078 25-pin type OPC-1939 15-pin type

Note: No digital modulation "IN" using accessory cables.

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IC-F5123D(30W)/IC-F5123D
VHF transceiver
IC-F6123D(30W)/IC-F6123D
UHF transceiver

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



IDAS™
ICOM DIGITAL ADVANCED SYSTEM

IDAS™ Conventional & IDAS™ Single-site Trunking
Digital/Analog Mixed Mode Operation

Built-in 2-Tone, 5-Tone, CTCSS and DTCS

MDC1200 Compatible

MIL-STD-810F
Rugged Construction

4W Front Mounted Speaker



Limited functions.

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 operation.

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-F5123D 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)
- Digital voice scrambler
- Emergency (No ACK)
- GPS data (PC and software required to show received position data)

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.

VHF & UHF DIGITAL/ANALOG TRANSCEIVERS

- IC-F5123D(30W)
- IC-F5123D
- IC-F6123D(30W)
- IC-F6123D

Other features (* = analog only)

- CTCSS/DTCS encoder/decoder*
- BISS PTT ID transmission*
- 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*

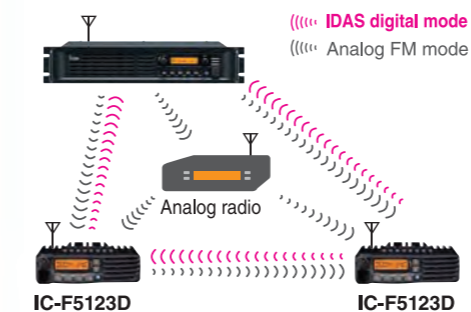
TX: Transmit, RX: Receive



The IC-F5123D series : A multitude of advantages because it's IDAS™

Advantage 1

Digital/analog mixed mode



The IC-F5123D 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-F5123D 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



Short data message example



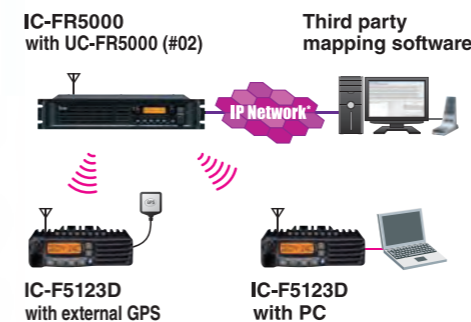
The display shows longer messages by automatic vertical scrolling.

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

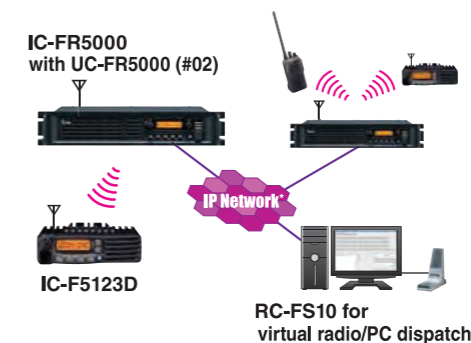
GPS capability



When used with an external GPS receiver, the IC-F5123D series can transmit accurate position data for use with vehicle management applications.

Advantage 5

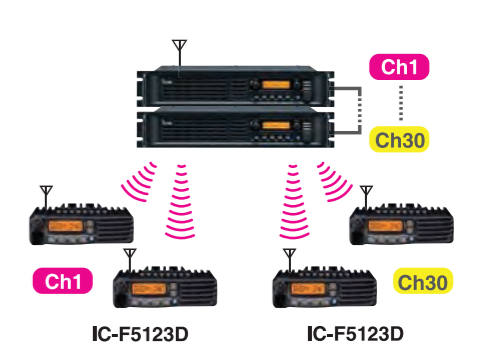
Multi-site conventional mode



When using the IC-F5123D series in IDAS multi-site conventional mode, the IC-F5123D 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-F5123D 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.