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

SPECIFICATIONS

	IC-F5123D	IC-F6123D	
GENERAL			
		350-400MHz	
Frequency coverage	136-174Mhz	400-480MHz	
Trequency coverage		450-520MHz	
Number of channels	128 channels (8zones)		
Type of emission	16K0F3E, 14K0F3E, 11K0F3E, 8	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	13.6	13.6V DC	
Current drain (approx.)			
Tx 60W	12A		
30W	6A 1.2A		
Rx Max. audio			
Standby	300mA		
Antenna impedance	50Ω (SO-239)/BNC		
Operating temperature range	-30°C to + 60°C ; -22°F to + 140°F		
Dimensions (W×H×D)	150×40×167.5mm; 5.91×1.57×6.59in		
(Projections not included)			
Weight (approx.)	1.1kg;2.4lb		
TRANSMITTER			
Output power (at 13.6V DC)	60W (Programmable)		
IC-F5123D/IC-F6123D			
IC-F5123D (30W)/IC-F6123D (30W)	10-30W (Programmable)		
Max. frequency deviation	±5.0kHz/±2.5kHz		
Frequency stability	±1.0ppm		
Spurious emissions	75dB / 0.25μV (≤ 1GHz) 1.0μV (> 1GHz)		
opunous emissions			
Adjacent channel power	70/60dB		
Audio frequency response	+1dB to -3dB of 6dB/octave range from 300Hz to 3000Hz/2550H		
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)		

	IC-F5123D	IC-F6123D			
RECEIVER					
Sensitivity					
(at 12dB SINAD)	0.25μV				
(at 5% BER)	-4dBµV (emf)				
Adjacent channel selectivity	80/70dB,	75/70dB,			
	65dB(digital)	60dB(digital)			
Spurious rersponse rejection	80dB				
Intermodulation rejection	80dB				
Hum and noise	55/50dB				
Audio output power	4W				
(at 5% distortion, 4Ω load)					
Audio frequency response	+1dB to -3dB of 6dB/octave range from 300Hz to 3000Hz/2550Hz				
Ext. speaker connector	2-conductor 3.5 (d) mm (1/8")/4				

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

Applicable U.S. Military Specifications

Standard 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	
Humidity 507.4 -	
Setting Dust 510.4 III	
Vibration 514.5 I	
Shock 516.5 I, IV	

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

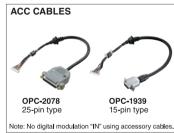
Supplied Accessories		
Hand microphone (HM-152)	 DC power cable 	 Mounting bracket kit
Microphone hanger	 Kev assign stickers 	

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









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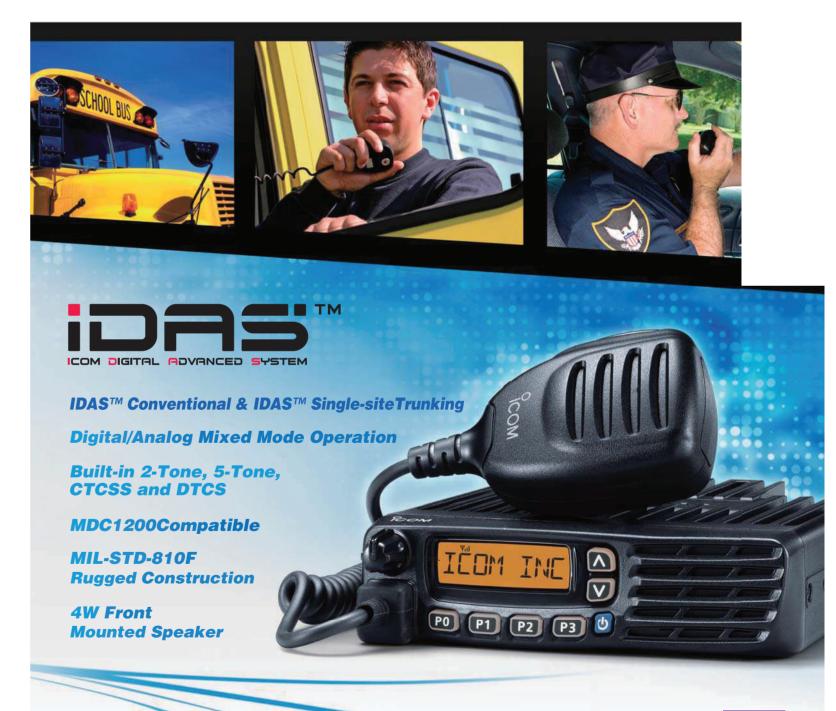
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VHF AND UHF DIGITAL/ANALOG TRANCEIVERS

IC-F5123D(30W)/IC-F5123D

IC-F6123D(30W)/IC-F6123D

Everything you'd expect in a bussiness 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.



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-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)
- SDM (Short Data Message)
- 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)

VHF & UHF DIGITAL/ANALOG TRANSCEIVERS

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

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

MDC 1200 compatible (Analog mode) The following MDC features are available

with the built-in MDC signaling. 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*
- BIIS PTT ID transmission* • 8 DTMF autodial memories
- Microphone hanger action programmable
- Optional DTMF microphone (HM-152T)
- Power-on password function
- Time out timer
- Talk around function
- Nuisance delete function* Forced narrow function*
- TX: Transmit, RX: Receive

Advantage 2 Advantage 3 Advantage 1 Digital/analog mixed mode

A multitude of advantages because it's IDAS™

(((IDAS digital mode ((((Analog FM mode

The IC-F5123D series:

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.

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.

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.

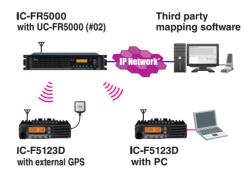
Up to 100 status conditions can be set and sent with voice call. Also, you can request another IDAS radio to send their status and receive it.

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

IC-F5123D

GPS capability



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

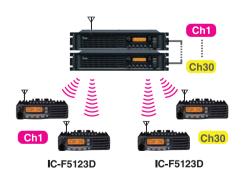
Advantage 5 Multi-site conventional mode



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.