

New Generation Entry Level Mobile Utilizing the Latest Design Platform

The IC-F5130D/F6130D series is a simple single-body IDAS™ mobile radio utilizing the latest Icom design platform and improved visibility with a high contrast and wide viewing angle black background LCD. Supporting critical and industry communication users, and offering an affordable digital and/or analog solution. The IC-F5130D/F6130D series can interconnect with other radio system via the VE-PG4, versatile RoIP gateway unit.

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|---|--|
| Improved Visibility with High Contrast and Wide Viewing Angle Black Background LCD | Input / Output Interface for External Devices with Optional D-SUB Accessory Cable |
| Dual Mode Operation – IDAS™ Digital Mode and Analog FM Mode | 400 – 520 MHz Wide Frequency Coverage (UHF version) |
| Interconnection with VE-PG4 through D-SUB Accessory Cable | Compact Single-body |



IC-F5130D

General Features

- 136–174, 400–520 MHz versions
- RF Output power 50 W/45 W for USA, and EXP, 25 W for EXP
- 128 Channels / 8 Zones
- High contrast and wide viewing angle black background LCD
- Eight character alphanumeric display
- 4 W (typical) front mounted speaker
- MIL-STD-810 G shock, vibration, temperature and more
- DTMF autodial memories capability
- Microphone hanger action programmable
- Four programmable buttons
- GPS position display and Auto-Timed GPS send (External GPS required)

Operating Mode

- NXDN™ conventional
- NXDN™ Type-D single-site trunking
- NXDN™ simulcast
- NXDN™ multi-site conventional over IP network
- Analog mode

Digital Functions (Voice and Data)

- PTT ID and ANI
- Over-the-Air Alias (OAA) displays the caller's name without programming
- Individual, Group and All call
- Late entry for Group call
- Status call and Polling call
- Short data messages
- Call alert
- Radio check (RX only)
- Call log
- Talk back timer

Analog Functions

- CTCSS and DTCS tone
- 2-Tone and 5-Tone
- MDC functions; PTT ID, Emergency (TX/RX), Radio check (RX), Stun (RX), Revive (RX)
- BIIS PTT ID transmission

Security and Safety

- Digital voice scrambler
- Emergency call and Lone worker
- Remote monitor (RX)
- Radio Kill, Stun and Revive (RX)
- Power ON password

Scan Functions

- Up to 17 scan lists programmable
- Priority scan monitors one or two priority channels while scanning non-priority channels
- Voting scan automatically selects the optimal repeater site

Hardware Features

- GPS receiver connection with optional ACC cable
- Optional D-SUB connector, OPC-2078/OPC-1939, for external PTT, channel, horn, ignition switch, and dimmer control, according to programming



Optional OPC-1939 installation image Optional OPC-2078 installation image

Dimensions



		IC-F5130D	IC-F6130D
GENERAL			
Frequency coverage		136–174 MHz	400–520 MHz
Number of channels		128 channels/8 zones	
Type of emission	USA, EXP 50 W/45 W EXP 25 W	16K0F3E (25 kHz)*/11K0F3E (15 kHz, 12.5 kHz)/ 4K00F1E, F1D (7.5 kHz, 6.25 kHz)	16K0F3E (25 kHz)*/11K0F3E (12.5 kHz)/ 4K00F1E, F1D (6.25 kHz)
Power supply requirement	USA, EXP 50 W/45 W EXP 25 W	13.6 V DC nominal 13.2 V DC nominal	
Current drain (approximate)	Tx (High) Rx (Max./Standby)	8.6 A typ. (50 W) 4.6 A typ. (25 W)	7.9 A typ. (45 W) 4.8 A typ. (25 W)
Antenna impedance	USA, EXP 50 W/45 W EXP 25 W	0.8 A typ. / 150 mA typ. 50 Ω (SO-239) 50 Ω (BNC)	
Operating temperature range		–30 °C to +60 °C, –22 °F to +140 °F	
Dimensions (W×H×D) (Projections not included)		150 × 45 × 151.8 mm, 5.9 × 1.8 × 6.0 in	
Weight (approximate)		1.23 kg, 2.7 lb	
TRANSMITTER			
Output power (rated)	USA, EXP 50 W/45 W EXP 25 W	50 W, 25 W, 5 W (Hi, L2, L1) 25 W, 10 W, 5.8 W (Hi, L2, L1)	45 W, 25 W, 4.5 W (Hi, L2, L1) 25 W, 10 W, 5.8 W (Hi, L2, L1)
Frequency stability		±1.0 ppm	
Spurious emissions	USA, EXP 50 W/45 W EXP 25 W	80 dB typ. 0.08 μW (typ.) (≤ 1 GHz) 0.03 μW (typ.) (> 1 GHz)	
Audio harmonic distortion (AF 1 kHz 40% deviation)		0.7% typ.	0.8% typ.
FM Hum and Noise (without CCITT filter)		82/77 dB typ. (W/N)	76/70 dB typ. (W/N)
FSK error		1.8% typ.	1.7% typ.
RECEIVER			
Sensitivity	Analog 12 dB SINAD (USA, EXP 50/45 W) Analog 20 dB SINAD (EXP 25 W) Digital 1% BER	0.25 μV (–119 dBm) typ. (W) 0.22 μV (–120 dBm) typ. (N) –4.9/–4.5/–1.8 dBμV emf typ. (W/M/N)	0.22 μV (–120 dBm) typ. (W/N) –5.0/–5.0/–2.0 dBμV emf typ. (W/M/N)
Adjacent channel selectivity	USA, EXP 50 W/45 W EXP 25 W	83/58/73 dB typ. (W/N/D) 83/82/80/73 dB typ. (W/M/N/D)	76/58/69 dB typ. (W/N/D) 76/76/74/69 dB typ. (W/M/N/D)
Spurious response rejection		80 dB typ.	75 dB typ.
Intermodulation rejection	Analog (USA, EXP 50/45 W) (EXP 25 W) Digital	76 dB typ. 69 dB typ. 74 dBμV emf typ.	74 dB typ. 69 dB typ. 74 dBμV emf typ.
Hum and noise		62/52 dB typ. (W/N)	64/53 dB typ. (W/N)
AF output power	External SP	4 W typ. (at 5% distortion, 4 Ω load)	

* 25 kHz bandwidth is no longer available for FCC Part 90 licensees for USA versions.

Applicable U.S. Military Specifications

Standard	MIL 810G	
	Method	Procedure
Low Pressure	500.5	I, II
High Temperature	501.5	I, II
Low Temperature	502.5	I, II
Temperature Shock	503.5	I-C
Solar Radiation	505.5	I
Humidity	507.5	II
Vibration	514.6	I
Shock	516.6	I, IV

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

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

Supplied accessories

- HM-152 Hand microphone
- DC power cable
- Mounting bracket kit
- Microphone hanger

■ HAND MICROPHONES AND DESKTOP MICROPHONE

- HM-148G: Heavy duty microphone. IP54 protection.
- HM-148T: Heavy duty microphone with DTMF keypad. IP54 protection.
- HM-152: Hand microphone
- HM-152T: Hand microphone with DTMF keypad.
- HM-211: Active Noise Cancelling microphone.
- HM-239T: Hand microphone with DTMF keypad.
- SM-26: Desktop microphone with monitor and monitor lock buttons.



■ ACC CABLES

- OPC-2078: D-SUB 25-pin accessory cable
 - OPC-1939: D-SUB 15-pin accessory cable
- Note: No Digital Modulation "IN" when using an accessory cable.



■ EXTERNAL SPEAKERS

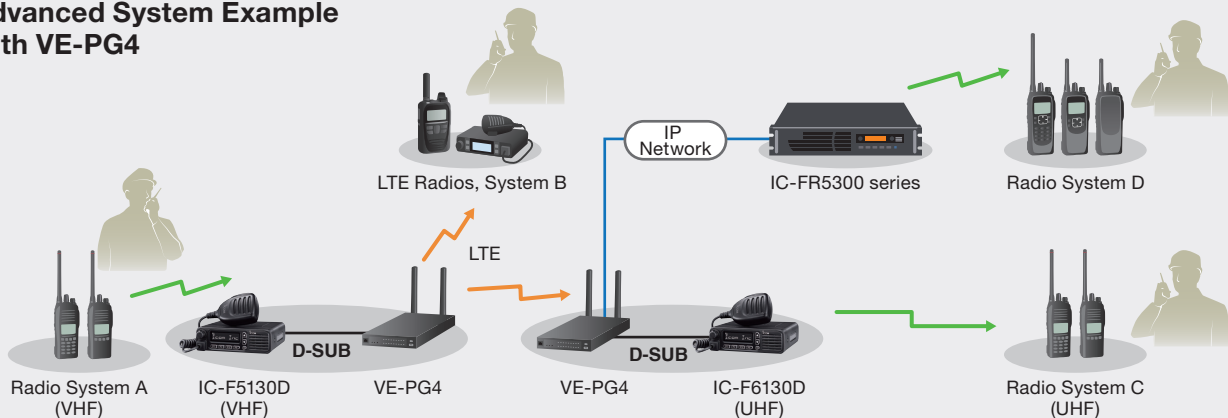
- SP-30: External speaker. 20 W rated input power
- SP-35/L: Compact external speaker
- SP-35 cable length: 2 m, 6.6 ft
- SP-35L cable length: 6 m, 19.7 ft



■ DC POWER CABLES

- OPC-2478: DC power cable (20 A, 3 m for 45/50 W version)
- OPC-2479: DC power cable (10 A, 3 m for 25 W version)

Advanced System Example with VE-PG4



The VE-PG4 is a versatile RoIP (Radio over IP network) gateway unit, which interconnects the IC-F5130D series with other radio systems, even when the systems are using different bands*.

As shown in the example, any transmission from the "Radio System A" is bridged to other radio systems, so the radio user in the "Radio System A" can talk to all connected radio users in the figure.

* Cross band operation may be prohibited in some countries.
Please check the legal requirements in your country before installation.

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