IC-F3261D-UL
IC-F4261D-UL

VHF AND UHF DIGITAL TRANSCEIVERS

5 W Output Power Digital Radio for Hazardous Locations

IC-F3261D-UL IC-F4261D-UL

The IC-F3261D-UL/F4261D-UL series provides 5 W output power and can be used in Class I, Division 2, Group A, B, C and D hazardous locations approved by UL (Underwriters Laboratories).
The radios with man down, lone worker and emergency call functions help your team remain connected even in hazardous locations.

Nonincendive: Class I, Division 2, Groups A, B, C, D

Multiple operating modes (Available mode depending on version)
- NXDN™ conventional and Type-D trunking
- dPMR™ conventional and Mode 3 trunking
- Analog FM

Man down and lone worker functions

IP67 dust-tight & waterproof

800 mW (typ.) audio output

Full dot-matrix display, rotary channel and volume knob for simple every-day operation

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iDAS™ ICOM DIGITAL ADVANCED SYSTEM

NXDN™

dPMR digital™

Approved UL Classifications

- Nonincendive: Class I, Division 2, Groups A, B, C, D when used with Icom BP-232UL battery pack.
- Ambient temperature: –20°C to +40°C
- ANSI/ISA 12.12.01-2015, CAN/CSA C22.2 No. 213-15

General Features

- 136–174, 350–400, 400–470, 450–512, 450–520 MHz versions
- 512 Channels / 128 Zones
- Full dot-matrix display with status icons
- Backlit LCD and buttons
- 16-position rotary selector and ON/OFF volume knob
- 800 mW loud and intelligible internal speaker audio
- 1000 mW audio from optional HM-184UL speaker-microphone
- MIL-STD-810 G shock, vibration, temperature and more
- IP67 dust-tight and waterproof, one meter for 30 minutes
- DTMF autodial memories

Operating Mode (Available mode depending on version)

- 6.25 kHz digital very narrow mode
- NXDN conventional and Type-D single/multi-site trunking
- dPMR conventional and Mode 3 trunking
- NXDN/dPMR multi-site conventional over IP network
- Analog FM mode
- Analog/digital mixed operation

Digital Functions (Voice and Data)

- Individual, group and all call
- Individual ID and talkgroup ID memories
- Late entry for group call
- Status call and polling
- Short data messages
- Call alert (NXDN version)
- Transparent data mode (dPMR version)
- Call log
- Over-the-Air Update (OTAU) changes the repeater channel data and site code over the air (NXDN Type-D trunking)

Analog Functions

- CTCSS and DTCS tone
- 2-Tone and 5-Tone
- MDC functions (NXDN version)
- BIIS 1200 (MSK)
- LTR™ trunking (NXDN version)

Safety and Security

- Digital voice scrambler
- Analog voice scrambler (Inversion)
- Power ON password
- Tactical group temporarily reconfigures user talkgroups
- Radio Stun/Revive/Kill
- Remote monitor (NXDN)/ambience listening (dPMR)
- Emergency key for emergency call
- Man down function
- Lone worker function
- Surveillance function

Scan Functions

- Priority scan
- Voting scan for site roaming
- Mode dependent scan
- Nuisance delete

Voice/Audio Functions

- Audio compander for analog mode
- Escalating alarm

6.25 kHz FDMA True RF Efficiency

Check our website to know more about 6.25 kHz FDMA narrow band.
www.icom.co.jp/world/fdma/

SPECIFICATIONS IC-F3261D-UL • IC-F4261D-UL

		IC-F3261D-UL (USA, CAN), IC-F3263D-UL (EXP) NXDN Version	IC-F3263D-UL (EXP) dPMR Version	IC-F4261D-UL (USA, CAN), IC-F4263D-UL (EXP) NXDN Version	IC-F4263D-UL (EXP) dPMR Version
GENERAL					
Frequency coverage (* Depending on version)		136–174 MHz	136–174 MHz	350–400 MHz (EXP), 400–470 MHz (ALL), 450–512 MHz (USA), 450–520 MHz (EXP)	350–400 MHz, 400–470 MHz
Number of channels		512 channels /128 zones			
Type of emission (* Depending on version)		16K0F3E*1, 11K0F3E, 8K50F3E, 4K00F1E/F1D			
Power supply requirement		7.5 V DC nominal			
Current drain (approx.)	Tx	1.5 A		1.8 A	
	Rx	550 mA /130 mA (Rated output/Standby)			
Antenna impedance		50 Ω			
Operating temperature range		–30 °C to +60 °C; –22 °F to +140 °F (Radio specifications)			
Dimensions (W × H × D; Projections not included)		53.5 × 142.7 × 39.5 mm; 2.1 × 5.6 × 1.6 in (With BP-232UL)			
Weight (approx.)		240 g; 8.5 oz (main unit)		230 g; 8.1 oz (main unit)	
		410 g; 14.5 oz (BP-232UL, MB-94R and FA-SC55V)			
TRANSMITTER					
Output power (Hi, L2, L1)		5 W, 2 W, 1 W		5 W, 2 W, 1 W	
Max. frequency deviation		±5.0 kHz (@25 kHz), ±2.5 kHz (@12.5 kHz)		±5.0 kHz (@25 kHz), ±2.5 kHz (@12.5 kHz)	
Frequency stability		±1.0 ppm		±1.0 ppm	
Spurious emissions		78 dB typ.		78 dB typ.	
FM Hum and noise		48 dB typ. (@25 kHz), 43 dB typ. (@12.5 kHz)		46 dB typ. (@25 kHz), 40 dB typ. (@12.5 kHz)	
Audio harmonic distortion		1.5% typ. (AF 1kHz 40% deviation)		1.5% typ. (AF 1kHz 40% deviation)	
FSK error		2% typ.		2% typ.	
RECEIVER					
Sensitivity	Analog (12 dB SINAD)	0.23 µV typ.		0.24 µV typ.	
	Digital (5% BER)	–8.0 dBµV emf typ. (0.20 µV typ.)		–8.0 dBµV emf typ. (0.20 µV typ.)	
Adjacent channel selectivity	Analog	78 dB typ. (@25 kHz), 68 dB typ. (@12.5 kHz)		75 dB typ. (@25 kHz), 64 dB typ. (@12.5 kHz)	
	Digital	60 dB typ.		60 dB typ.	
Spurious response rejection		76 dB typ.		76 dB typ.	
Intermodulation rejection	Analog	75 dB typ. (@25 kHz), 75 dB typ. (@12.5 kHz)		75 dB typ. (@25 kHz), 75 dB typ. (@12.5 kHz)	
	Digital	66 dB typ.		66 dB typ.	
Hum and noise		52 dB typ. (@25 kHz), 47 dB typ. (@12.5 kHz)		49 dB typ. (@25 kHz), 44 dB typ. (@12.5 kHz)	
Audio output power	Internal SP	800 mW typ. (at 5% distortion, 12 Ω load)		800 mW typ. (at 5% distortion, 12 Ω load)	
	External SP	1000 mW typ. (at 5% distortion, 8 Ω load)		1000 mW typ. (at 5% distortion, 8 Ω load)	

Measurements made in accordance with TIA-603 and EN301 166. All stated specifications are subject to change without notice or obligation.
*1 25 kHz bandwidth is no longer available for FCC Part 90 licensees for USA versions.

Applicable U.S. Military Specifications & IP Rating

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
Rain Blowing/Drip	506.5	I, III
Humidity	507.5	II
Salt Fog	509.5	–
Dust Blowing	510.5	I
Immersion	512.5	I
Vibration	514.6	I
Shock	516.6	I, IV

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

Ingress Protection Standard (Including BP-232UL and HM-184UL)	
Dust & Water	IP67 (Dust-tight and waterproof protection)

Battery Life

Battery pack	Type	Capacity	Operating time*
BP-232UL	Li-ion 7.2 V	2350 mAh (typ.), 2200 mAh (min.)	12–12.5 hours (Approx.)

* Tx: Rx: standby = 5:5:90 duty cycle. Power save function ON.

Supplied accessories: (May differ depending on version)
• Battery pack, BP-232UL • Belt clip, MB-94R • Antenna

BATTERY PACK

BP-232UL: Rechargeable Li-ion battery. 2350 mAh (typ.), 2200 mAh (min.). IP67 protection.
12–12.5 hours operating time.


BP-232UL

BATTERY CHARGERS

BC-171: Regular charger. Charges the BP-232UL in 8–10 hours (approximate).
+ **BC-147SA/SE/SV**: AC adapter.

BC-160: Rapid charger. Charges the BP-232UL in 3 hours (approximate).
+ BC-123SA/SE/SV: AC adapter.

BC-197: Multi-charger. Charges up to six batteries in 3.5 hours (approximate).
+ **BC-157S**: AC adapter.
* AD-122 charger adapter is supplied with the BC-197, depending on version.


BC-171
BC-147SA/SE/SV


BC-160
BC-123SA/SE


BC-197
BC-157S

POWER SUPPLY CABLES

OPC-656: DC power cable for use with the BC-197.
OPC-515L: DC power cable for use with the BC-160 or BC-171.


OPC-656
OPC-515L

SPEAKER-MICROPHONE

HM-184UL: Speaker microphone with a large PTT button. IP67 protection.
Approval pending as of September, 2017.


HM-184UL

BELT CLIPS AND BELT HANGERS

MB-93: Swivel belt clip.
MB-94R: Alligator belt clip. Same as supplied.
MB-96N: Swivel type leather belt hanger.
MB-96F: Fixed type leather belt hanger. For use with the MB-94R.


MB-93
MB-94R
MB-96N
MB-96F

SOFTWARE AND CABLES

CS-F3160/F5060: Programming software.
OPC-1862: Programming cable. USB–14-pin type.
OPC-1871: Zone copy cable. Handheld to mobile type.

ANTENNAS

FA-SC25V: 136–150 MHz
FA-SC55V: 150–174 MHz
FA-SC01U: 350–400 MHz
FA-SC02U: 330–380 MHz
FA-SC03U: 380–430 MHz
FA-SC25U: 400–430 MHz
FA-SC57U: 430–470 MHz
FA-SC72U: 470–520 MHz

HIGH GAIN ANTENNAS

FA-SC62V: 150–160 MHz
FA-SC63V: 155–165 MHz

STUBBY ANTENNAS

FA-SC56VS: 150–162 MHz
FA-SC57VS: 160–174 MHz
FA-SC73US: 450–490 MHz

CUT-TYPE ANTENNAS

FA-SC61VC: 136–174 MHz
FA-SC61UC: 380–520 MHz

DO NOT use the transceiver with any other equipment other than the above options.
The battery charger, BC-171, BC-160 or BC-197 must not be used in an explosive atmosphere.

Read all instructions enclosed with the transceiver carefully and completely before using the transceiver.

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