IC-F3261D-UL Series
IC-F4261D-UL Series

VHF AND UHF DIGITAL TRANSCEIVERS

IC-F3261D-UL IC-F4261D-UL

5 W Output Power Digital Radio for Hazardous Locations

The IC-F3261D-UL/F4261D-UL series can be used in Class I, Division 2, Group A, B, C and D hazardous locations approved by UL (Underwriters Laboratories). A full 5 W of output power is available with this approval. Other safety features such as man down, lone worker and emergency call functions help your team remain connected 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

* Non scrambler version (IC-F3263D-UL #14) is available for countries where scrambling/encryption functions are prohibited.

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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
- 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/

		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)	
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-147SA/SE/SV BC-171 BC-123SA/SE BC-160 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

■ 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.
Please ask your dealer to ensure the nonincendive ratings are acceptable for the intended place of use.

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