ICOM

VHF AND UHF DIGITAL/ANALOGUE TRANSCEIVERS

IC-F3262DT
VHF transceiver with full keypad

IC-F4262DT
UHF transceiver with full keypad

IC-F3262DS
VHF transceiver with simple keypad

IC-F4262DS
UHF transceiver with simple keypad

Advanced IDAS™ Digital Handheld
with Built-in GPS and Waterproof Protection

iDAS™

ICOM DIGITAL ADVANCED SYSTEM

Built-in GPS Receiver*

Man Down* **and
Lone Worker Functions**

**IP67 Waterproof and
Dust-tight Protection**

800 mW Audio Output Power

IDAS™ dPMR™ Features*

**512 Memory Channels
with 128 Zones**

(* Depending on version)

dPMR digital™   Rugged MIL-STD 810   IP67   GPS

IDAS™– Versatile Digital Radio Solutions for your Business

IP67 Waterproof & Dustproof Protection

The IC-F3262D series provides protection against dust and water that is equivalent to IP67. The radio can withstand 1 m depth of water for 30 minutes.

Man Down and Lone Worker Functions for Emergency Call

The man down function* automatically sends an emergency signal when the transceiver is left in a horizontal position. The lone worker function also can transmit an emergency signal when the radio is not operated for a preset period. These emergency signals can be sent with GPS position data* to alert your co-workers or dispatch of any potential trouble.

* Depending on version.

800 mW (typ.) Audio Output Power

The built-in BTL amplifier doubles the audio output power and the large 40mm speaker delivers loud 800 mW (typ.) audio to receive all calls under noisy environments.

IC-F3262DT
(Full keypad)

IC-F4262DS
(Simple keypad)

dPMR™ Features

The IC-F3262D series* meets dPMR standards (TS 102 658) and provides dPMR Tier 2 Mode 1/2/3 operation. The following dPMR features are programmable.
• Individual/group call • All group call
• Emergency   • Call log
• Status message
• SDM (Short Data Message)
• GPS
• Stun, kill and revive
• Digital voice scrambler
• Transparent data mode
  * dPMR version only.

Call Setup and Clear Down

The "Call setup and clear down" which is used in 5-Tone or BIIS signaling in analogue radios is implemented in the dPMR system. The IC-F3262D series confirms availability of the destination radio before you talk. 5-Tone or BIIS users can introduce dPMR without hesitation and avoid a new learning curve with these radios.

Transparent Data Modem Function

When IC-F3262D series is connected to a PC or other external equipment, the transparent data modem function allows communication in a 6.25kHz channel. It can be used for remote telemetry system control or data applications.

Built-in Voice Scrambler

The built-in inversion voice scrambler* provides secure conversation in analogue mode. When using IDAS digital mode, the digital voice scrambler provides a 15-bit key (about 32,000 codes) as standard.

* Inversion voice scrambler is not compatible with UT-109R/UT-110R voice scrambler.

Status Messages

The IC-F3262D series has 32 programmable status messages. The status messages can be used as special functions to control the radio such as ambience listening (Auto TX), radio stun/kill /revive and GPS position reporting/request.

Built-in GPS Receiver*

Your current position data can be attached to a voice or data (SDM, status or emergency signal) transmission and can be sent to dispatch stations*.
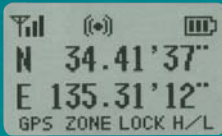
Showing own position information.

* Depending on version. * To graphically show the received position data, an external PC application is required.

14-pin Accessory Connector

The new 14-pin accessory connector enhances audio output capabilities with the built-in BTL amplifier. The optional HM-184/H speaker-microphone has a 1000 mW (typ.) audio output for loud and clear communications.

Large Full Dot-Matrix LCD

Using a large full dot-matrix LCD (32 × 18 mm), the IC-F3262D series shows two lines of easy-to-read text messages. The bottom row shows assigned functions to the [P0] to [P3] buttons.

Long Lasting Battery Life

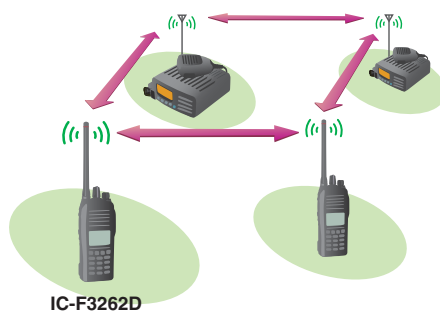| GPS type	Operating Time
Built-in GPS type	10.5 hours (approx.)
Non GPS type	12 hours (approx.)

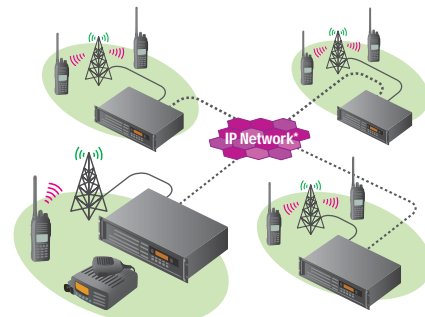* Digital mode typical operation in 5:5:90 duty cycle, power save on.

Other Features

- 512 memory channels with 128 zones
- 5 W output power both in VHF and UHF
- Built-in 2-Tone, 5-Tone and BIIS 1200*
- CTCSS/DTCS encoder/decoder*
- MIL-STD 810 G rugged construction
- 8 DTMF autodial memories
- Tactical group function
- Busy channel lockout, repeater lockout
- Power on password
- Time-out timer • Talk around function
- Low battery alert • Escalating alarm
- Surveillance function
(* = Analogue mode only)

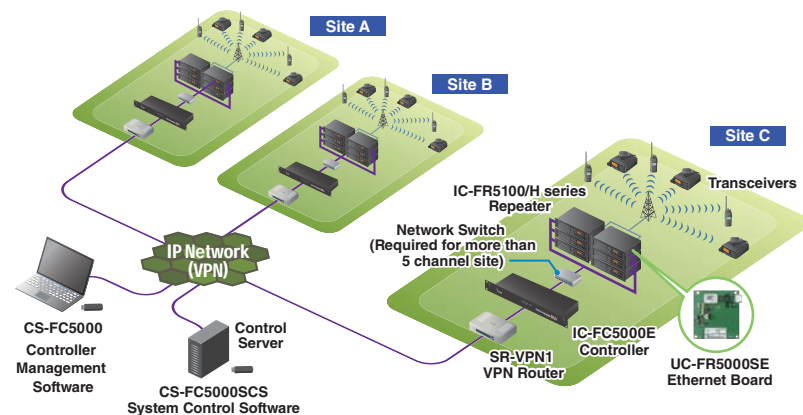# IDAS™ expands coverage and capacity

Mode 1 Direct Peer-to-Peer Mode

IC-F3262D

- 6.25 kHz digital migration
- Digital/analogue mixed mode operation

Mode 2 Conventional Repeater Mode

IP Network*

- Up to 16 IDAS repeater sites connection over an IP network.

Mode 3 Digital Trunking

Site A
Site B
Site C

Transceivers

IC-FR5100/H series Repeater

Network Switch (Required for more than 5 channel site)

IP Network (VPN)

CS-FC5000 Controller Management Software

Control Server

CS-FC5000SCS System Control Software

SR-VPN1 VPN Router

IC-FC5000E Controller

UC-FR5000SE Ethernet Board

- Up to 32 channels per site (Minimum 2 channels)
- Up to 32 site multi-site trunking with System Control Software, CS-FC5000SCS
- Channel licence system. Four channel activation key is supplied with the IC-FC5000E
- CS-FC5000 web based management software allows to connect multiple clients
- Individual, group and broadcast call • Call queuing • Emergency call with pre-emption

NXDN™ Simple Trunking

User Group A
User Group B
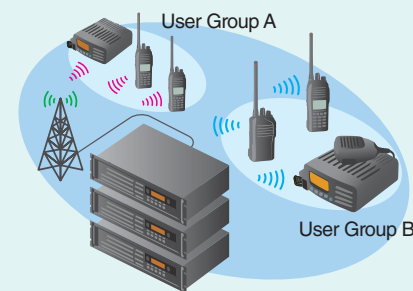
- NXDN Type-D distributed channel trunking system which does not use a dedicated control channel
- Up to 30 channels per site
- Up to 2,000 individual IDs and up to 2,000 group IDs (in single site system)

* NXDN version radios and repeater system required.

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.

VHF DIGITAL/ANALOGUE TRANSCEIVERS
IC-F3262DT
IC-F3262DS

UHF DIGITAL/ANALOGUE TRANSCEIVERS
IC-F4262DT
IC-F4262DS

SPECIFICATIONS

	IC-F3262DT/DS	IC-F4262DT/DS
GENERAL		
Frequency coverage	136–174 MHz	400–470 MHz
Number of channels	512 channels/128 zones	
Type of emission	16K0F3E/14K0F3E/8K50F3E/4K00F1E/F1D	
Channel spacing	25/20/12.5/6.25 kHz	
Power supply requirement	7.5 V DC nominal	
Current drain (approx.)		
Tx High (at 5 W)	1.7 A	1.8 A
Rx Rated output/Standby	550 mA/160 mA	550 mA/160 mA
Antenna impedance	50 Ω	
Operating temperature range	−25 °C to +55 °C (Radio specifications)	
Dimensions (W × H × D) (Projections not included)	53.5 × 142.7 × 39.5 mm (With BP-232WP)	
Weight (approx.)	410 g (with BP-232WP, MB-94R & FA-SC55V)	400 g (with BP-232WP, MB-94R & FA-SC57U)
TRANSMITTER		
Output power (at 7.5 V DC)	5 W, 2 W, 1 W (Hi, L2, L1)	
Max. frequency deviation	±5.0/±4.0/±2.5 kHz (Wide, middle, narrow)	
Frequency stability	±1.0 ppm	
Spurious emissions	0.25 µW (≤1 GHz), 1.0 µW (>1 GHz)	
Residual modulation	48/47/42 dB typ. (Wide, middle, narrow)	
Audio harmonic distortion	1.5% typ. (AF 1 kHz 40% deviation)	
FSK error	2.0% typ.	
Ext. microphone connector	14-pin multi-connector/2.2 kΩ	
RECEIVER		
Sensitivity (Analogue) (Digital)	−4 dBµV emf typ. (at 20 dB SINAD) −8 dBµV emf typ. (at 5% BER)	
Adjacent channel selectivity	78/78/68/60 dB typ. (Wide, middle, narrow, digital)	
Spurious response rejection	76 dB typ.	
Intermodulation	67 dB typ. (Wide, narrow) 73 dBµ emf typ. (Digital)	
Hum and noise	55/54/50 dB typ. (Wide, middle, narrow)	
Audio output power (at 5% distortion)	800 mW typ. (Internal SP, 12 Ω load) 1000 mW typ. (External SP, 8 Ω load)	
Ext. speaker connector	14-pin multi-connector/8 Ω	
GPS (Depending on version)		
Receiver channels	12 channels	
Time to first fix (cold start)	36 seconds typ. (at open sky)	
Horizontal accuracy	5 m (at open sky)	

Measurements made in accordance with EN 300 086 and EN 301 166.
All stated specifications are subject to change without notice or obligation.

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 (IC-F3262D/F4262D, BP-232WP and HM-184/H)	
Dust & Water	IP67 (Dust-tight and waterproof protection)

Supplied accessories: (May differ according to version)
• Battery pack, BP-232WP   • Belt clip, MB-94R   • Antenna

OPTIONS

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

BATTERY PACK AND CASES
IP67

BP-232WP
Rechargeable Li-ion, 2250 mAh (min.) 2300 mAh (typ.)

BP-240
6 × LR03 (AAA) cells

BP-261
6 × LR6 (AA) cells

REGULAR CHARGER

BC-171

BC-147S*

Charges the BP-232WP in 8–10 hours (approx.).

RAPID CHARGER

BC-160

BC-123S*

Charges the BP-232WP in 3 hours (approx.).

* BC-123/BC-147SA for USA plug. SE for Europe plug. SV for Australia plug.

MULTI-CHARGER

BC-157S

BC-197

CHARGER BRACKET

MB-130

For use with BC-160

BELT CLIPS

MB-93
Swivel type

MB-94R
Alligator type

SPEAKER-MICROPHONE
IP67

HM-184/H

HEADSETS and PTT SWITCH CABLE

HS-94
Earhook type

HS-95
Behind-the-head type

HS-97
Throat type

VS-4MC
Required when using any of these headsets

LEATHER BELT HANGERS
• MB-96N: Swivel type
• MB-96F: Fixed type
• MB-96FL: Long type

ACC ADAPTOR
• AD-118: For use with Hirose Plug Accessory

ZONE COPY CABLES
• OPC-1870: Handheld to handheld
• OPC-1871: Handheld to mobile

CIGARETTE LIGHTER CABLE
• CP-23L: For use with BC-160

POWER SUPPLY CABLE
• OPC-656: For use with BC-197

CHARGER ADAPTOR
• AD-122
AD-122 charger adaptor is supplied with the BC-197, depending on version.

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

CUT ANTENNAS
• FA-SC61VC: 136–174 MHz
• FA-SC61UC: 380–520 MHz

HIGH GAIN ANTENNAS
• FA-SC62V: 150–160 MHz
• FA-SC63V: 155–165 MHz

ANTENNAS
• FA-SC25V: 136–150 MHz
• FA-SC55V: 150–174 MHz
• FA-SC25U: 400–430 MHz
• FA-SC57U: 430–470 MHz

VERSION COMPARISON

		IC-F3262DT/DS series (IDAS dPMR 3 version)	IC-F3262DT/DS series (IDAS dPMR 1/2 version)	IC-F3262DT/DS series (IDAS NXDN version)
IDAS dPMR	Mode 1/2	✔	✔	–
	Mode 3	✔	–	–
IDAS NXDN	Conventional	–	–	✔
	Type D trunking	–	–	✔
Voice scrambler	Digital	✔	✔	✔
	Analogue (Inversion)	✔	✔	✔
GPS		✔*2	✔*2	✔*2
Man Down Function		✔*2	✔*2	✔*2
Lone Worker Function		✔	✔	✔
CTCSS, DTCS*1		✔	✔	✔
5-Tone, 2-Tone*1		✔	✔	✔
DTMF autodial/decoder		✔	✔	✔
BIIS 1200*1		✔	✔	✔
MDC 1200*1		–	–	✔
LTR™ trunking*1		–	–	✔

*1 Analogue mode. *2 Depending on version.

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