



VHF AND UHF DIGITAL REPEATERS

IC-FR5000C

VHF Repeater

IC-FR6000C

UHF Repeater

NXDN™ Type-C Trunking Digital Repeater

General Features

- 146–174, 400–430, 450–480MHz
- 5W output power (100% duty cycle)
- Repeater or base operation
- 1U 19-inch rack mountable
- 6 programmable function keys
- Two-digit LED display
- 30 channel scanning base (Conventional mode)
- 3W external speaker audio
- Program/modem interface
- Remote terminal interface
- DTMF AUX output control
- DTMF AUX input monitoring
- Programmable AUX I/O's
- Flash firmware upgrading
- 16 CTCSS and DTCS built-in

Digital Features*

- Digital conventional mode
- Multi-site conventional
- NXDN™ Type-C trunking mode
- Digital/analog mixed mode operation
- 15-bit digital scrambler
- 6.25 & 12.5 kHz channels
- Unit ID & Group ID validation
- Optional OCXO unit for 6.25kHz channel spacing
- Up to 48 site trunked IP network
- IP network connectivity
- Compact flash memory expansion

* Some features require activation licenses.



iDAS™

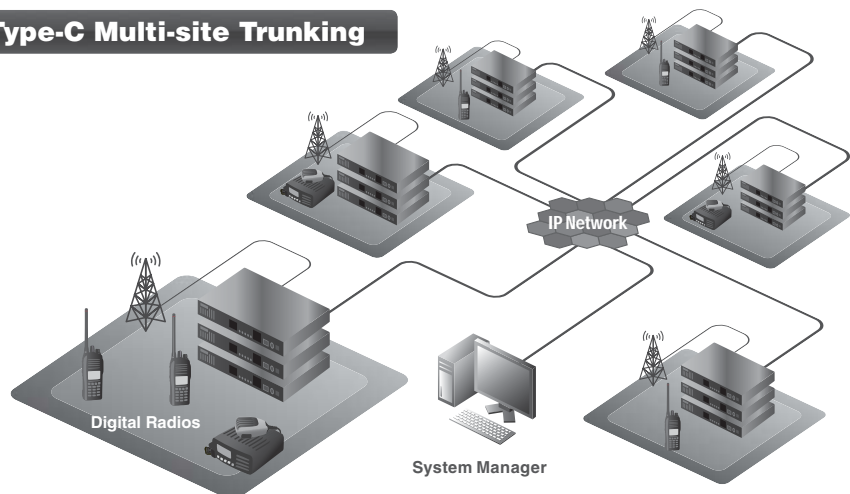
ICOM DIGITAL ADVANCED SYSTEM

TYPE-C



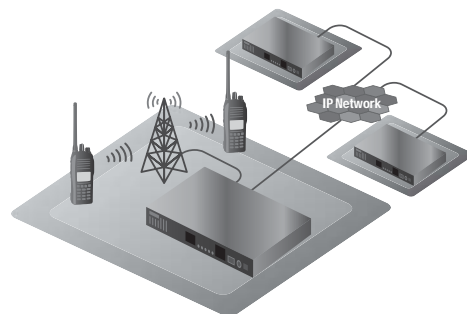
VHF AND UHF DIGITAL REPEATERS IC-FR5000C • IC-FR6000C

Type-C Multi-site Trunking



Multi-site Conventional System

With the IC-FR5000C series, up to 16 or 48 repeaters can be interlinked with each other*.
*Certain routing type required [16 (unicast) / 48 (multicast)] for maximum no. of repeaters per network.



Type-C trunking compatible product lineup

The IC-F3360D and IC-F5360D series are designed for the Type-C trunking terminal components with the following digital features.

- NXDN™ Type-C trunking
- NXDN™ Conventional system
- Menu-driven user interface
- Built-in GPS receiver*
- IP67 dust-tight & waterproof (IC-F3360D series only)
- * External GPS antenna required for IC-F5360D series.



IC-F5360D series



IC-F3360D series

Supplied Accessories

- DC power cable connector

Please note: IP linking for multi-site conventional systems must use the following: Only IC-FR5000C series repeaters, or Only in combination with IC-FR5000/FR5200H series repeaters.

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SPECIFICATIONS

	IC-FR5000C	IC-FR6000C
GENERAL		
Frequency coverage	146–174MHz	400–430MHz 450–480MHz
Number of channels	30 channels	
Channel spacing	6.25/12.5kHz	
Type of emission	11K0F3E, 8K30F1E/F1D/F7W, 4K00F1E/F1D/F7W/F2D	
Frequency stability	±1.5ppm ±0.1ppm (Option)	
Antenna impedance	50Ω (Type-N)	
Operating temperature range	–30°C to +60°C; –22°F to +140°F	
Power supply voltage	10.8–15.9V DC nominal	
Dimensions (W×H×D)	483×44×331 mm ; 19.02×1.73×13.03 in	
Weight	5kg ; 11.02 lb (approximately)	
TRANSMITTER		
Output power	5–0.5W 100% duty cycle	
Spurious emissions	73dB typ.	
FM hum and noise	50dB typ. (Narrow)	
Audio distortion	Less than 1% (at 1000Hz)	
RECEIVER		
Sensitivity	0.30μV typ. (at 12dB SINAD) Analog 0.33/0.27μV typ. (D 12.5kHz/D 6.25kHz, at 3% BER) Digital	
Adjacent channel selectivity	85dB typ. (Narrow) 81dB typ. (Narrow)	
Spurious response	100dB typ.	
Intermodulation distortion	85dB typ. (Narrow)	
Hum and noise ratio	55dB typ. (Narrow)	
Audio output power	3W typ. (External SP, at 5% distortion with 4Ω load)	

Measurements made in accordance with TIA-603.

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

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