






**IDAS**<sup>™</sup>  
ICOM DIGITAL ADVANCED SYSTEM




## IDAS<sup>™</sup> At-A-Glance

Analog + Digital, All-In-One.  
Affordably Migrate Into Narrowband and Very Narrowband with IDAS.

## Self-Contained Repeaters

Model	Description	Version	Channels	Duplexer	Pre-Selector	TX Power	Power Supply	Mounting Configuration
 <b>CY-5000/6000</b>	Single channel, auto sensing, self contained repeater in one single chassis (4 versions available depending on desired options)	<b>CY-5000/6000*</b> <small>*Also available with a duplexer or pre-selector</small>	1	OPTIONAL	OPTIONAL	50W	1 (w/battery back up)	Desktop / Rack Mountable
		<b>CY-5000/6000-D-PRE</b>	1	1	1	50W	1 (w/battery back up)	Desktop / Rack Mountable
 <b>IAS 100DV/DU</b>	High power single channel repeater. Standard version, with standard power supply	<b>IAS 100DV/DU</b>	1	OPTIONAL	OPTIONAL	100W	1	Rack Mountable
	High power single channel repeater. Public safety version, with redundant power supply	<b>IAS 100DV/DU PUBLIC SAFETY</b>	1	OPTIONAL	OPTIONAL	100W	1	Rack Mountable
 <b>FR5000/FR6000 2CH KIT</b>	Two channels, complete assembled system, with power supplies, duplexers and duplexer mounting tray	<b>FR5000/FR6000 2CH KIT</b>	2	2	N/A	50W	2	Rack Mountable

## IDAS System Components – for use in a new or existing systems




 <b>FR5000/FR6000</b>	Single channel repeater, 2RU tall. Requires separate power supply	<b>FR5000/FR6000</b>	1	OPTIONAL	OPTIONAL	50W	OPTIONAL	Rack Mountable
 <b>UR-FR5000/FR6000</b>	Single channel repeater channel module	<b>UR-FR5000/FR6000</b>	1	OPTIONAL	OPTIONAL	50W	OPTIONAL	Internal
 <b>FR5000/FR6000 UR KIT</b>	Two channels, RF only repeater kit	<b>FR5000/FR6000 UR KIT</b>	2	OPTIONAL	N/A	50W	OPTIONAL	Rack Mountable

<sup>1</sup> Requires UC-FR5000





<sup>2</sup> Also available in non digital version  
F3161S/F4161S & F3161T/4161T

<sup>3</sup> Also available in a non digital version  
F5061/F6061

## Accessories – upgrade any of the above repeaters to trunking or IP-enabled

Model	Description	Version	Requirements	Mounting Configuration
 <b>UC-FR5000</b>	Slot mounted UC-FR5000 trunking/network controller enables home channel trunking	<b>UC-FR5000 01</b>	1 per channel	Internal
 <b>CF-FR5000</b>	Combine CF-FR5000 with UC-FR5000 for ability to link up to 16 IDAS repeater via IP and voting	<b>CF-FR5000 02</b>	1 per channel <sup>1</sup>	Internal
	Combine CF-FR5000 MT with UC-FR5000 for the ability to connect up to 48 sites of multi-site trunking (MultiTrunk)	<b>CF-FR5000MT</b>	1 per channel	Internal
 <b>RC-FS10</b>	A Windows® application for your computer that makes your PC a virtual radio for dispatch operations	<b>RC-FS10 05</b>	1 for up to 8 repeaters	PC Application

## Subscribers – full featured, rugged portable and mobile radios ready for any application

 <b>F3161D/F4161D<sup>2</sup></b>	<b>DIGITAL</b> Conventional, LTR®, IDAS™ Digital, IDAS™ Trunking, PassPort®, mixed mode portable	<b>F3161DS VHF</b> <b>F4161DS UHF</b>	5W VHF 5W UHF	A handheld, portable radio with 512 channels
		<b>F3161DT VHF</b> <b>F4161DT UHF</b>		
 <b>F3101D/F4101D</b>	<b>DIGITAL</b> Conventional, IDAS™ Digital, IDAS™ Trunking, mixed mode portable	<b>F3101D VHF</b> <b>F4101D UHF</b>	5W VHF 4W UHF	A handheld, portable radio with 16 channels
 <b>F5061D/F6061D<sup>3</sup></b>	<b>DIGITAL</b> Conventional, LTR, IDAS™ Digital, IDAS™ Trunking, PassPort®, mixed mode mobile	<b>F5061D VHF</b> <b>F6061D UHF</b>	50W VHF 45W UHF	A mobile radio, easily mounts in a vehicle, or used as a portable base with 512 channels
 <b>F5121D F6121D</b>	<b>DIGITAL</b> Conventional, IDAS™ Digital, IDAS™ Trunking, mixed mode mobile	<b>F5121D VHF</b> <b>F6121D UHF</b>	50W VHF 45W UHF	A mobile radio, easily mounts in a vehicle, or used as a portable base with 128 channels



**IDAS™ is more flexible.**

Icom created a series of repeater solutions to easily fit into your projects. They are simple to order and easy to install.



Number of Voice Paths		1	2
Systems Configuration	Complete Repeater Assembled System	CY-5000	FR5000/FR6000 2 CH Kit
	Basic RF ONLY	FR5000/FR6000 UR-FR5000/FR6000	FR5000/FR6000 UR Kit

Follow the chart to understand which system best fits your needs.

**IDAS Systems and Networks – Competitive Advantages**

1. VHF duplexer options with 3 MHz minimum separation
2. Scalable to all IDAS systems
3. Mixed mode operation eliminates need to replace entire radio fleet at once
4. TX Power of 50W or 100W
5. Auto Sense for Analog/Digital Operation
6. One power supply per voice path for redundancy
7. Bandwidth of 6.25 kHz provides spectrum flexibility (easier licensing)
8. Less rack units for less footprint
9. Migrate to IP networks with voting, remote dispatch, diagnostics, trunking
10. Easily scalable from conventional to trunking or from single-site to multi-site.

**Basic RF Only–Self Contained Repeaters**

For an existing installation that simply needs new repeaters. Order the repeater components from Icom, and make sure to add the options needed to interconnect your existing system.

**Complete Assembled System**

If you are building a system from the ground up, Icom has the best solution for you. We offer one voice path (i.e. channel) or two voice path solutions. The IDAS advantage is scalability; IDAS can match the size of your opportunity.

Need a three channel basic RF solution? Marry the UR-FR5000 and the FR-UR 2 CH Kit together. Need a two channel trunk system enabling two simultaneous voice paths? Pick one of our 2 Ch Kits and add two low cost UC Boards.

The choices are many and the price is right to build a solution to match the opportunity.

The IDAS mixed mode conventional repeater can be easily upgraded to a home channel-based trunking system with the optional simple slot-mounted UC-FR5000 board. Enable IP connectivity with the optional UC-FR5000 board and CF-FR5000 IP repeater link card. Use your computer as a virtual radio by adding the RC-FS10 Remote Communicator and talk to your system from your computer.