



Icom Radio Solutions / How the World Communicates

Signalling – A or D ¹ (Analog, Digital)	A	A	A	A	A	A/D	A/D	A/D	A/D	A/D	A/D	A/D	A/D	A/D	A/D	A/D	A/D	A/D	A/D ²	D	D	D	D	D
Trunking ³																								
With Display																								
Emergency Button																								
Voice Record																								
Bluetooth [®]																								
Channel Announcement																								
Vibration																								
Integrated GPS																								
Active Noise Cancelling																								
Micro SD																								
OTAP																								
Intrinsically Safe																								

MODES:																									
LTE-CONNECT	V10MR MURS	F3001 F4001	F1000 F2000	F5011 F6011	F5021 F6021	F1100D F2100D	F5121D F6121D	F5220D F6220D	F3230D F4230D	F5061D F6061D	F5400D F6400D	F52D / UL ⁴ F62D / UL ⁴	F3400D F4400D	F9011 F9021	F9511 F9521	F7010 F7020	F7510 F7520	F7040S F7040T	F7540	IP730D IP740D	IP100H	IP501H	IP501M	IC-SAT100	IC-SAT100M

GENERAL	<table border="1"> <tr> <td>Mode</td> <td colspan="5">Analog</td> <td colspan="10">iDAS™ / NXDN™ + Analog</td> <td colspan="5">P25 + Analog</td> <td colspan="2">LTE / iDAS™</td> <td colspan="2">WLAN</td> <td colspan="2">LTE / IP</td> <td colspan="2">Satellite / Iridium</td> </tr> <tr> <td>Band</td> <td>VHF</td> <td colspan="4">VHF / UHF</td> <td colspan="10">VHF / UHF</td> <td colspan="5">VHF / UHF</td> <td colspan="2">700-800 MHz</td> <td colspan="2">VHF / UHF / LTE iDAS™</td> <td colspan="2">WLAN</td> <td colspan="2">LTE</td> <td colspan="2">Satellite</td> </tr> <tr> <td>Channels</td> <td>16</td> <td>16</td> <td colspan="2">16 or 128</td> <td>8</td> <td>128</td> <td colspan="2">16 or 128</td> <td colspan="2">128</td> <td colspan="2">512</td> <td colspan="2">1024</td> <td colspan="2">512</td> <td colspan="2">32 or 1024</td> <td colspan="5">512</td> <td colspan="2">128</td> <td colspan="2">NA</td> <td colspan="2"></td> </tr> <tr> <td>TX Max Power</td> <td>2W</td> <td colspan="2">VHF 5W UHF 4W</td> <td colspan="2">VHF 50W UHF 45W</td> <td colspan="2">VHF 5W UHF 4W</td> <td colspan="2">VHF 50W UHF 45W</td> <td colspan="2">VHF 50W UHF 45W</td> <td colspan="2">5W</td> <td colspan="2">VHF 50W UHF 45W</td> <td colspan="2">5W</td> <td colspan="2">VHF 6W UHF 5W</td> <td colspan="2">VHF / UHF 50W HT 110W</td> <td colspan="2">5W</td> <td colspan="2">VHF 50W UHF 45W</td> <td colspan="2">3W</td> <td colspan="2">800MHz 35W 700MHz 30W</td> <td colspan="2">5W, 2W, 1W</td> <td colspan="2">Less Than 10 mW / MHz</td> <td colspan="2">Unpublished</td> </tr> </table>																								Mode	Analog					iDAS™ / NXDN™ + Analog										P25 + Analog					LTE / iDAS™		WLAN		LTE / IP		Satellite / Iridium		Band	VHF	VHF / UHF				VHF / UHF										VHF / UHF					700-800 MHz		VHF / UHF / LTE iDAS™		WLAN		LTE		Satellite		Channels	16	16	16 or 128		8	128	16 or 128		128		512		1024		512		32 or 1024		512					128		NA				TX Max Power	2W	VHF 5W UHF 4W		VHF 50W UHF 45W		VHF 5W UHF 4W		VHF 50W UHF 45W		VHF 50W UHF 45W		5W		VHF 50W UHF 45W		5W		VHF 6W UHF 5W		VHF / UHF 50W HT 110W		5W		VHF 50W UHF 45W		3W		800MHz 35W 700MHz 30W		5W, 2W, 1W		Less Than 10 mW / MHz		Unpublished	
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FEATURES	<table border="1"> <tr> <td>Water Intrusion</td> <td>IP67</td><td>IP54</td><td>IP67</td><td colspan="2">NA</td><td>IP67</td><td>NA</td><td>NA</td><td>IP67</td><td>NA</td><td>NA</td><td>IP67</td><td>IP68</td><td>IP67</td><td>NA</td><td>IP68</td><td>IP55</td><td>IP68</td><td>IP55</td><td>IP67</td><td>IPX7</td><td>IP67</td><td>NA</td><td>IP67</td><td>NA</td> </tr> <tr> <td>Trunking Type</td> <td colspan="2">NA</td><td colspan="2">Built-in Analog Voice Scrambler</td><td colspan="2">Optional Analog Voice Scrambler</td><td colspan="2">SST</td><td colspan="2">SST & MST</td><td colspan="2">SST / MST / LTR</td><td colspan="2">SST / MST / LTR Optional with License</td><td colspan="2">Phase 1</td><td colspan="2">Phase 1 & Phase 2</td><td colspan="2">LTE / iDAS™</td><td colspan="2">WLAN</td><td colspan="2">Iridium[®]</td> </tr> <tr> <td>Encryption / Scrambling Built-in or Optional</td> <td colspan="2">NA</td><td colspan="2">Built-in Analog Voice Scrambler</td><td colspan="2">Optional Analog Voice Scrambler</td><td colspan="2">Built-in Digital Voice Scrambler</td><td colspan="2">Built-in Digital Voice Scrambler</td><td colspan="2">Built-in Analog & Digital Voice Scramblers</td><td colspan="2">Built-in Digital Voice Scrambler, Optional AES & DES Encryption</td><td colspan="2">Built-in Analog & Voice Scramblers Optional AES & DES Encryption</td><td colspan="2">Built-in Analog & Digital Voice Scramblers Optional AES & DES Encryption</td><td colspan="2">Built-in Digital Voice Scrambler (15-bit)</td><td colspan="2">Built-in WPA-PSK, WPA2-PSK, WEP</td><td colspan="2">Built-in AES Encryption</td> </tr> <tr> <td>Priority Scan</td> <td colspan="2">Yes</td><td colspan="2">Yes</td><td colspan="2">Yes + Voting Scan</td><td colspan="2">Yes</td><td colspan="2">Yes + Voting Scan</td><td colspan="2">Yes</td><td colspan="2">Yes</td><td colspan="2">Yes + Voting Scan with Optional License - ISL-P25VS</td><td colspan="2">Yes</td><td colspan="2">Yes</td><td colspan="2">Yes</td><td colspan="2">Yes</td> </tr> <tr> <td>Keypad / Buttons⁷</td> <td>None</td><td colspan="2">None, Prog. Buttons, Full</td><td colspan="2">Full</td><td colspan="2">None, Prog. Buttons, Full</td><td colspan="2">Full</td><td colspan="2">Prog. Buttons</td><td colspan="2">Full</td><td colspan="2">Prog. Buttons</td><td colspan="2">None, Prog. Buttons, Full</td><td colspan="2">Full</td><td colspan="2">Prog. Buttons, Full</td><td colspan="2">Full</td><td colspan="2">Full</td> </tr> <tr> <td>Display: Type, Remote / Dual Head</td> <td>None</td><td colspan="2">None, Standard Display</td><td colspan="2">None</td><td colspan="2">Standard Display</td><td colspan="2">Standard Display</td><td colspan="2">Standard Display</td><td colspan="2">Standard LCD</td><td colspan="2">Hi-res Color LCD, Optional Remote Head & Dual Remote Head Kits Available</td><td colspan="2">Standard Display</td><td colspan="2">Hi-res Color LCD</td><td colspan="2">None, Standard Display</td><td colspan="2">Standard Display</td><td colspan="2">Hi-res Color LCD</td> </tr> </table>																								Water Intrusion	IP67	IP54	IP67	NA		IP67	NA	NA	IP67	NA	NA	IP67	IP68	IP67	NA	IP68	IP55	IP68	IP55	IP67	IPX7	IP67	NA	IP67	NA	Trunking Type	NA		Built-in Analog Voice Scrambler		Optional Analog Voice Scrambler		SST		SST & MST		SST / MST / LTR		SST / MST / LTR Optional with License		Phase 1		Phase 1 & Phase 2		LTE / iDAS™		WLAN		Iridium [®]		Encryption / Scrambling Built-in or Optional	NA		Built-in Analog Voice Scrambler		Optional Analog Voice Scrambler		Built-in Digital Voice Scrambler		Built-in Digital Voice Scrambler		Built-in Analog & Digital Voice Scramblers		Built-in Digital Voice Scrambler, Optional AES & DES Encryption		Built-in Analog & Voice Scramblers Optional AES & DES Encryption		Built-in Analog & Digital Voice Scramblers Optional AES & DES Encryption		Built-in Digital Voice Scrambler (15-bit)		Built-in WPA-PSK, WPA2-PSK, WEP		Built-in AES Encryption		Priority Scan	Yes		Yes		Yes + Voting Scan		Yes		Yes + Voting Scan		Yes		Yes		Yes + Voting Scan with Optional License - ISL-P25VS		Yes		Yes		Yes		Yes		Keypad / Buttons ⁷	None	None, Prog. Buttons, Full		Full		None, Prog. Buttons, Full		Full		Prog. Buttons		Full		Prog. Buttons		None, Prog. Buttons, Full		Full		Prog. Buttons, Full		Full		Full		Display: Type, Remote / Dual Head	None	None, Standard Display		None		Standard Display		Standard Display		Standard Display		Standard LCD		Hi-res Color LCD, Optional Remote Head & Dual Remote Head Kits Available		Standard Display		Hi-res Color LCD		None, Standard Display		Standard Display		Hi-res Color LCD	
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Global Wireless Communications

AIR. LAND. SEA.

Your Professional Radio Solutions Company

No matter what your communication needs may be, we have the system for you. We go beyond the traditional VHF and UHF two-way radios providing peace of mind and keep you connected anywhere at anytime. Icom offers innovation and diverse solutions that offer a wide range of radio platforms from analog, digital, wireless LAN, LTE to satellite – a true comprehensive wireless communications company.

RoP Gateway to Link to Other Systems

VE-PG4

The VE-PG4 allows you to bridge almost any modern communications system to Icom's universe of Network products. As well as interconnect with an IP phone, and various radio systems including WLAN radio, satellite PTT, LTE, iDAS™ and analog radios.

Communication Links

Professional Digital Repeater Systems

FR-5300

One Platform for All Your System Configurations

The FR5300 is a second generation iDAS™ repeater that builds upon the powerful product line with the affordable, low complexity digital simulcast capabilities and a new CPU / FPGA platform. Increase coverage with simulcast by adding repeaters to pair on the same networks. Simulcast: It couldn't be easier.

NOTES

- ¹ A¹ indicates radio has the following analog signaling – 25 Tone, CTCSS, MDC1200, and DTMF Encode.
- ² IP730D / IP740D only analog signaling is CTCSS / DTCSS.
- ³ Trunking is called out as SST (Single-site Trunking), MST (Multi-site Trunking), and LTR.
- ⁴ For P25: Phase 1 & 2, and for IP / Satellite radios: LTE, WLAN and Iridium[®].
- ⁵ All digital radios are capable of MSC, Multi-site Conventional.
- ⁶ Future firmware update.
- ⁷ OTAP (Over-the-Air Programming) for P25 conventional, CS-OTPM2 software required.
- ⁸ Intrinsically Safe version (UL) available.
- ⁹ Radios sold as no display, with display and limited programmable keys, or display with programmable keys and full DTMF keypad.