



# X↔BAND AIR

## Avionic Crossband Repeater

### BRIDGING THE GAP BETWEEN AIR AND LAND



19" Rack with F5021 & A120

Communication just got easier with the X-Band Air repeater. Icom's avionic crossband repeater provides fast, seamless communications between VHF/FM, UHF/FM, AM and air band frequencies. The X-Band Air provides interoperability between ground crew and air crew for forestry, hospitals and oil rigs.

The repeater features full VFO capability in one box. The compact size allows for flexible configurations. Set the X-Band air on a desktop, put it in a case that can be used anywhere or mount in a 19" industry standard rack frame.

#### Powerful Crossband Capability - Fast and Responsive, from Air to Ground in Seconds

- Versions: AIR BAND + VHF, or AIR BAND + UHF
- Output Power: 50 Watts VHF; 45 Watts UHF; 36 Watts Peak AIR BAND
- Local controlled operation; can also be used as a dual base unit (*with optional mic*)

#### Size and Feature Set Flexibility

- Mount in a 19" rack, a desktop configuration or placed in a RDS case, depending on your needs

#### Maximum Frequency Flexibility—Alpha Tag Your Channels

- VHF & UHF Land Mobile  
128 Memory channels with 8 memory banks per radio
- 8 Character alphanumeric display/easy to read
- Air Band:  
200 memory channels w/ 12 character channel names  
Easy to read alphanumeric characters and icons

#### Battery Backup

- Configurable to 120V or 220V AC input.  
Can switch over to customer-supplied 12 volt DC battery backup if AC power fails.



When you need to have air support

# AVIONIC CROSSBAND REPEATER

# X ↔ BAND AIR

## ADDITIONAL FEATURES

- Automatic battery backup charging system
- Internal controller with programmable Hang Timer
- DB25 accessory connector with EPTT, COR, DISC, EMOD and AFO for each radio
- Built-in AC EMI filter

## SPECIFICATIONS

### GENERAL

Frequency coverage	: AIR	118.0-136.992MHz
	: VHF	136-174MHz
	: UHF	440-470MHz
Number of channels	: AIR	200 channels
	: VHF/UHF	128 channels/8 zones
Channel spacing	: AIR	25kHz/8.33kHz
	: VHF/UHF	12.5/25kHz / 15/30kHz*
PLL channel step	: VHF/UHF	2.5, 3.125kHz
Frequency stability	: AIR	±5.0 ppm
	: VHF/UHF	±2.5 ppm
Operating temp. range		-30°C to +60°C; -22°F to +140°F
Power supply voltage		: 13.6 V DC
Current drain (approx.)	: AIR	TX: 5.0A (maximum) RX: 4.0A (at AF max.), 0.5A (at stand-by-by)
	: VHF	TX: 10A (at 50W/45W approx.) RX: 0.7 A/250mA (Max. audio/stand-by)
	: UHF	TX: 11A (at 50W/45W approx.) RX: 0.7 A/250mA (Max. audio/stand-by)

Antenna impedance	: 50Ω (SO-239)
Dimensions (WxHxD)**	: 482.6 x 127 x 393.7mm 19" x 5" x 15.5"

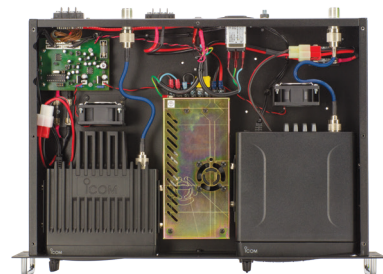
Weight\*\* : 8.6kg; 19 lbs  
 \*25kHz bandwidth is no longer available for FCC Part 90 licenses for USA versions. Ask your dealer if you need 25kHz bandwidth.  
 \*\*Depends on configuration

### TRANSMITTER

Output power	: AIR	9W (Carrier power) typical
	: VHF	50W
	: UHF	45W
Max. frequency deviation	: VHF/UHF	±5.0/±2.5 kHz (wide/narrow)
Spurious emission	: AIR	Less than -60 dBc
	: VHF/UHF	70 dB typ.
Adjacent Ch. power		: 70/60dB (wide/narrow)
Mic. impedance		: 600Ω (8-pin modular)

### RECEIVER

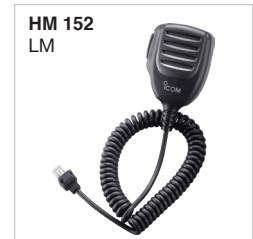
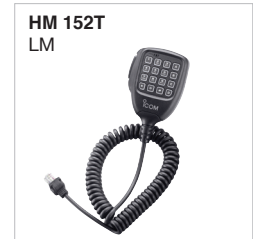
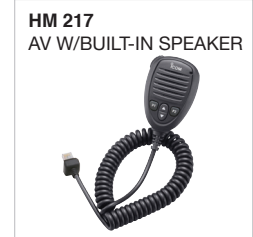
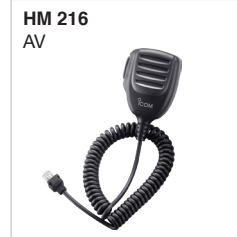
Sensitivity	: AIR	<1 μV typ. (6db S/N)
	: VHF/UHF	0.25 μV typ. (at 12dB SINAD)
Squelch sensitivity	: AIR	< 0.35 μV (pd)
	: VHF/UHF	0.25 μV typ.
Adjacent ch. selectivity	: AIR	6dB/60dB
	: VHF/UHF	75/65dB typ. (wide/narrow)
Spurious response	: AIR	> 74dBμ
	: VHF/UHF	80dB
Intermodulation (typical)	: VHF/UHF	75dB typ.
Audio output power	: AIR	1.5W typical at 10% distortion with an internal SP (8Ω load)
	: VHF/UHF	4W typical at 10% distortion with an internal SP (4Ω load)
External SP connector		: 2-conductor 3.5 (d) mm (1/8")/4Ω



INSIDE VIEW

## OPTIONS

### MICROPHONES:



**Supplied Accessories**

• AC Power Cord      • DC Power Cord

## BACK VIEW



A clean rear panel design allows for easy setup and operation. An options connector allows for customized applications such as Interconnect, CWID, and more. A standard PC-type power cord plugs into a 110V outlet.

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