

Go Beyond Normal Limits...™

RITRON
WIRELESS SOLUTIONS

Repeater/Extender System

Total Radio Coverage at a Reasonable Cost.

Ritron understands your requirements —and your pocketbook.

Our repeater satisfies your on-site communication needs

for enhanced RF range, eliminating the requirement for high power repeaters.

2 OR 5 WATT
MODELS AVAILABLE

Liberty Repeater



10 WATTS
USING A
GAIN ANTENNA*

- Increases range and penetration
- Overcomes deadspots and obstacles
- Rugged and reliable





- 2 Watt or 5 Watt Models
- Wide or Narrow Band
- 12VDC Back-up Capable
- 2 DQC Talk Groups or 1 QC Talk Group
- Includes Built-in Duplexer and Power Supply



Ritron has a full complement of wireless products and accessories for your two-way radio communications.



VHF/UHF Portable Radios -Communicate with personnel instantly at a push-of-the-button. Rugged and lightweight with built-in weather scan (VHF models only), and Interference Elimination features.



VHF/UHF Two-way Base Station/Wireless Intercom
-Great 24/7 2-way radio monitoring. Ideal for service desk, office administration, and security. Stationary desktop or wall mount radio is compatible with virtually any VHF or UHF radio. Includes built-in weather scan (VHF models only) and Interference Eliminator features. Operates on 110 VAC or 12 VDC, so no batteries are required. *Always ready...always there...always on!*



OutPost® Callbox -Puts communication right where it's needed. Wireless technology installs quickly and easily *without costly trenching, monthly charges or air-time fees.* Provides long-range (miles, not feet) communication between radio-equipped personnel and the OutPost callbox. Increases utilization of existing systems by allowing system-access from even the most remote locations. Improves security and safety of the facility *without* additional personnel.



LoudMouth® Wireless PA System -The LoudMouth is the ideal solution anywhere a hard-wired PA is simply impossible or too expensive to install. The LoudMouth allows personnel to use a portable 2-way radio, base station or mobile radio to deliver "live" voice messages directly to the PA speaker from up to 2 miles away, (*line-of-sight, no obstructions*). Works with the Liberty Repeater for added range and flexibility.



RPM 60 Series Mobile Radio -Rugged, reliable, and easy to operate. It's all metal, uni-body construction is small and compact with a bright alpha-numeric LED display. The radio features programmable front panel buttons which can be assigned up to two functions per button by your dealer.

* 5 Watt Liberty using a GdB gain antenna or higher with no cable loss. Loss of the coaxial cable in dB must be subtracted from the gain of the antenna to compute the actual Effective Radiated Power.



RJ-12 Speaker Microphone



RAM-1545 Antenna

GENERAL	WIDE BAND 25 kHz	NARROW BAND 12.5 kHz
Models: 2 Watt 5 Watt	RLR-460-W RLR-465-W	RLR-460 RLR-465-N
FCC ID:	AIERT15-460	AIERT15-460
IC:	1084A-RLR-460	1084A-RLR-460
FCC Parts:	90, 95A	90, 95A
Dimensions:	2.125"H x 8.0" W x 5.75" D	2.125"H x 8.0" W x 5.75" D
Weight:	3.5 lbs.	3.5 lbs.
Emission Designators:	14K8F3E	11K1F3E
Operating Frequency Range:	450-470 MHz	450-470 MHz
Frequency Separation:	TX/RX: 5.0 MHz	TX/RX: 5.0 MHz
RF Channels:	(1) TX/RX Channel	(1) TX/RX Channel
Synthesized Steps:	12.5 kHz	12.5 kHz
Tone/Code Signalling:	1 QC (Quiet Call) Talk Group or 2 DQC	(Digital Quiet Call) Talk Groups
Power Requirements: (2 Watt) (5 Watt)	12 VDC nominal @ 1A 12 VDC nominal @ 1.5A	12 VDC nominal @ 1A 12 VDC nominal @ 1.5A
Local Audio Output:	1/8 Watt into 8 Ohms	1/8 Watt into 8 Ohms
Hang-Time Timer:	0 to 8 seconds, programmable	0 to 8 seconds, programmable
Squelch Tail Eliminator Timer:	0 to 8 seconds, programmable	0 to 8 seconds, programmable
Time-out Timer:	0 to 30 minutes, programmable	0 to 30 minutes, programmable
RF Connector:	"N" Type	"N" Type
DC Power Connector:	P-5 (2.1mm X 5.51mm X 9.5 mm)	P-5 (2.1 mm X 5.51mm X 9.5 mm)
Antenna Impedance:	50 Ohms	50 Ohms
Test Speaker Microphone:	RJ-12	RJ-12
TRANSMITTER		
RF Output @ antenna port:	5/2 Watt	5/2 Watt
Frequency Stability:	+/- 1.5 PPM (-30° C to +50° C)	+/- 1.5 PPM (-30° C to +50° C)
Modulation:	Direct FM	Direct FM
Deviation:	0 to +/- 5 kHz, adjustable	0 to +/- 2.5 kHz, adjustable
Spurious & Harmonics:	< -20 dBm	< -20 dBm
Audio Response:	10 to 2500 Hz (+/- 3 dB)	10 to 2500 Hz (+/- 3 dB)
FM Hum & Noise:	-50 dB	-45 dB
Duty Cycle:	100/25%	100/25%
RECEIVER		
Receiving System:	Fixed Tuned, Dual Conversion Superheterodyne	Fixed Tuned, Dual Conversion Superheterodyne
IF System:	43.65 MHz/450 kHz	43.65 MHz/450 kHz
Local Oscillator:	Low Side Injection	Low Side Injection
Sensitivity (12 dB SINAD):	0.28 uV through duplexer	0.28 uV through duplexer
Selectivity (EIA):	-75 dB @ +/- 25 kHz	-65 dB @ +/- 12.5 kHz
Spurious Rejection (EIA):	-75 dB	-75 dB
Image Rejection (EIA):	-80 dB	-80 dB
Intermodulation Rejection (EIA):	-70 dB	-70 dB
Frequency Stability:	+/- 1.5 PPM (-30° C to +50° C)	+/- 1.5 PPM (-30° C to +50° C)
Noise Squelch Sensitivity:	8-18 dB SINAD, adjustable - factory set to open @ 12 dB	8-18 dB SINAD, adjustable - factory set to open @ 12 dB
Audio Frequency:	10 Hz to 3 kHz	10 Hz to 3 kHz

Call 800-USA-1-USA

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Your Ritron Dealer: