

GO BEYOND NORMAL LIMITS

...with the Ritron Liberty™ Repeater!

5 WATT
NOW AVAILABLE



*Lib·er·ty (libərti:) n. 1). freedom
2). an action going beyond
normal limits.*

Another Ritron revolution in on-site two-way radio communications Announcing the ultra-small, self-contained Liberty Repeater.

The Liberty Repeater is the perfect wireless solution for on-site communication needs. Industrial plants, stores, schools, golf courses, and other "tough-to-cover" applications no longer need to suffer from the limitations common to all brands of portable two-way radios. When the antenna location is optimized for the area of operation, the Liberty Repeater provides rock solid communication from one radio to another, virtually eliminating shadowing, fading, and dead spots.



The Liberty Repeater is the perfect wireless solution for:

**Golf Courses • Schools • Retail Stores • Nursing Homes • Shopping Malls
Manufacturing Plants • Warehouses • Amusement Parks • Hospitals • Special Events**



Rugged and compact, the Liberty repeater is a completely integrated wireless solution. The Liberty repeater is specifically designed "from the-ground-up" to be just that... an integrated, full duplex, PC programmable on-site repeater. Big in performance and features, yet small in size, the Liberty measures only 2.125"H x 8.0"W x 5.75"D. It's all-metal, powder coated, extruded aluminum housing provides durability and protection for the electronics and duplexer, while built-in mounting flanges make the Liberty easy to install.

We've been designing and manufacturing wireless communications products for over 25 years. And the Liberty repeater is yet another Ritron breakthrough in on-site, wireless RF communication technology.

- Frequency Range: 450-470 MHz – 400-430MHz coming soon!
- Narrow or Wide Bandwidth Versions Available
- Frequency Stability: + 1.5 ppm (-30° to +50° C)
- Integrated Full Duplex Radio and Duplexer w/ "N" Connector
- Power On and Transmit Indicator LED's
- Includes 110VAC to 12VDC Wall-Mount Power Supply
- RJ-12 Jack For Remote Speaker Microphone
- CTCSS or DCS Signaling (1 CTCSS or 2 DCS codes)
- Synthesized & PC Programmable
(tuning required and Windows based Ritron PC Software)
- Compact size 2.125" H X 8.0" W X 5.75" D & Lightweight: 3.5 lbs
- Built-In Mounting Flanges
- Proudly designed, manufactured, and serviced in the USA

If you need to "go beyond normal limits" with your portable radios, call Ritron. We have wireless solutions!

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:	AIERIT15-460	AIERIT15-460
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) or 2 DQC (Digital Quiet Call) modes	1 QC (Quiet Call) or 2 DQC (Digital Quiet Call) modes
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

Your Ritron Dealer: