

GO BEYOND NORMAL LIMITS

...with the Ritron Liberty™ Repeater!



*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.



Optional Remote Speaker for PTT & Local Audio

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 Signalling
- 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! **Call 800-USA-1-USA.**

Ritron has a full complement of wireless products 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 Wireless 2-Way Radio Callboxes -Two-way Callboxes provide an efficient and cost-effective method of two-way voice communication between visitors and your radio equipped personnel. These battery operated callboxes provide wireless communication over existing two-way radio systems without costly trenching, extensive wiring, or dedicated phone lines.



The Quick Assist Wireless Customer Callbox -A fast and easy wireless method for customers to summon a sales associate to a specific department or location without using the PA system. The Quick Assist is low-cost, completely wireless, and battery powered. Install it virtually anywhere without costly remodeling. The unit works on business band VHF/UHF, license-free VHF MURS, and GMRS frequencies.



VHF/UHF Wireless Voice Alarm Reporter -Ideal for monitoring doors or limited access areas. Connect to any contact closure or switch and this battery-operated radio transmitter monitors critical areas on a 24/7 basis. Transmits a "custom" voice alert message to all radio-equipped personnel. *It's like being in two places at once!*

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.

GENERAL	WIDE BAND 25 kHz	NARROW BAND 12.5 kHz
Models:	RLR-460	RLR-460
FCC ID:	Pending	Pending
FCC Parts:	Pending	Pending
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:	16K0F3E	11K2F3E
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:	QC™ (Quiet Call) or DQC (Digital Quiet Call) mode	QC™ (Quiet Call) or DQC (Digital Quiet Call) mode
Power Requirements:	12 VDC nominal @ 1A min.	12 VDC nominal @ 1A min.
Local Audio Output:	½ Watt into 8 Ohms	½ 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
"N" Connector:	"N" Type	"N" Type
DC Power Connector:	P-5 (2.1mm X 5.1mm X 9.5 mm)	P-5 (2.1 mm X 5.1mm X 9.5 mm)
Antenna Impedance:	50 Ohms	50 Ohms
Test Speaker Microphone:	RJ-12	RJ-12
TRANSMITTER		
RF Output @ antenna port:	2 Watt	2 Watt
Frequency Stability:	+/- 1.5 PPM (-300 C to +500 C)	+/- 1.5 PPM (-300 C to +500 C)
Modulation:	Direct FM	Direct FM
Deviation:	0 to +/- 5 kHz, adjustable	0 to +/- 2.5 kHz, adjustable
Spurious & Harmonics:	< -36 dBm	< -36 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%	100%
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 (-300 C to +500 C)	+/- 1.5 PPM (-300 C to +500 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
IC Canada type acceptance pending.		

Always ready...always there...always on!

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Your Ritron Dealer:



Go Beyond Normal Limits...SM



visit us at www.ritron.com

Ritron Inc. P. O. Box 1998 Carmel, IN 46082
800-USA-1-USA (800-872-1-872) · Fax: 317-846-4978
email: ritron@ritron.com

©2002 All rights reserved. Ritron, Quiet Call, & Quick Assist are registered trademarks of Ritron, Inc. Quick Talk & Liberty are trademarks of Ritron, Inc. All specifications subject to change without notice.