Go Beyond Normal Limits...℠
RITRON®
WIRELESS SOLUTIONS

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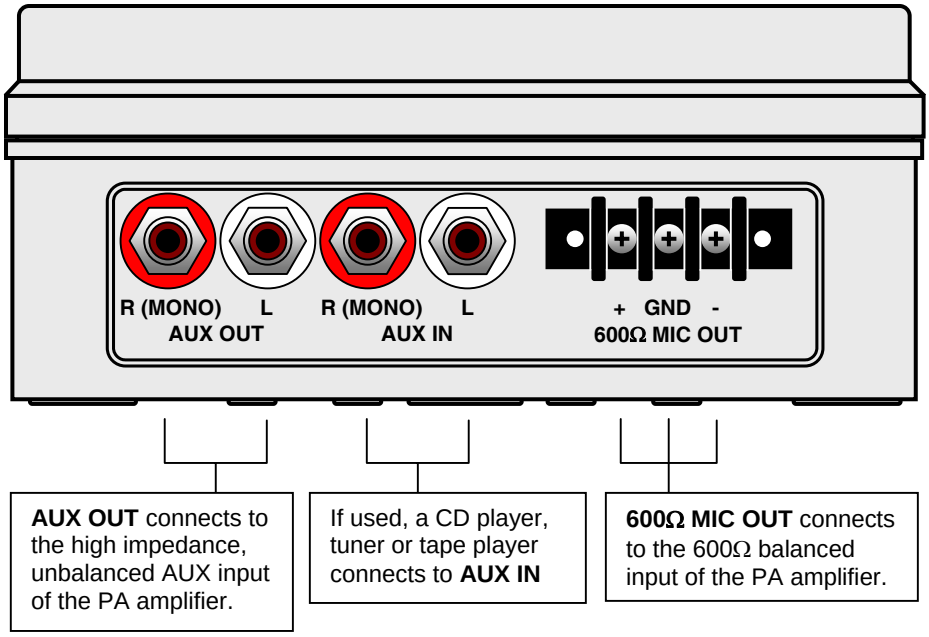
LPA-Series Loudmouth Receiver

The LPA-Series receiver is designed for interface to existing wired Public Address systems to allow PA announcements using VHF or UHF business band, FRS, or MURS 2-way radios.

Features:

- Available in VHF (150-162 MHz) and UHF (450-470MHz) frequency bands.
- Provides interconnection to the Public Address amplifier through a high impedance, unbalanced AUX input **OR** a 600Ω, balanced MIC input.
- If the AUX input of the PA/Intercom amplifier is already used (ie: stereo tuner for background music) the LPA-Series is installed in-between the audio source (stereo tuner) and the PA/Intercom amplifier. When the LPA-Series receives a message the audio source is interrupted and the received message is sent to the PA/Intercom amplifier instead.
- "Record and Play" allows use of radios in close proximity to PA speakers without feedback. The LPA-Series records received messages up to 30 seconds in length, then plays them over the PA immediately after the message is complete.
- Easy "Plug and Play" installation.
- Programmable volume control adjusts audio output level.
- Selective signaling includes QC, DQC, Selcall, 2-Tone
- Pre-announce tone (programmable on/off and volume level)
- NOAA Weather Alert (VHF only)
- Field or PC programmable
- The LPA-Series is for interface only, it cannot drive a loudspeaker.
- The LPA-Series is for indoor use ONLY.
- LPA can be used along with the LM series stand-alone wireless receiver and horn speaker.
- Audio Cables Not Included.



Loudmouth™ Receiver

Receiver physical dimensions		7.0”H x 5.0”W x 3.0”D
Receiver enclosure material		Valox® Thermo-plastic
Receiver color		Gray (RAL# 7035)
Receiver weight		1 lb. 15 oz. (with AFB-1545 antenna and BP-LM9 battery)
Receiver mounting		top and bottom aluminum bracket
Receiver environmental		indoor use only
AUX OUT	Connectors Maximum Output Output Impedance	RCA Phono jacks 4 VAC peak (LPA-Series received audio is adjustable) 50kΩ, unbalanced
AUX IN	Connectors Maximum Output Output Impedance	RCA Phono jacks 4 VAC peak (audio routed directly to AUX OUT when LPA-Series is not receiving) 50kΩ, unbalanced
600Ω MIC OUT	Connectors Maximum Output Output Impedance	Screw terminals (plus, minus, ground) 200mVAC peak 600Ω, balanced
DC power connector		2.1mm coaxial DC jack (size M)
Antenna connector		50Ω BNC
Antenna		AFB-1545 dual-band (150-170 MHz, 450-470 MHz)
Selective signaling decode capability		• CTCSS (Quiet Call) • Digital Coded Squelch (Digital Quiet Call) • Selcall ID • 2-Tone Paging Decode
Noise squelch sensitivity		Programmable, factory set for 12 dB SINAD
Frequency response		300 - 3000 Hz, de-emphasized
Receiving System		Dual conversion superheterodyne
I.F. System		1st ..... 43.65 MHz 2nd ..... 450 kHz
QC/DQC decode time		per EIA Standards
2-Tone decode frequency range		300 – 1500 Hz
Selcall decode standard		EEA tone set, 3-7 digits

	LPA-U450		**LPA-V150**	
FCC ID	AIERIT27-450		AIERIT27-150	
Canada	1084A-RIT27-450		1084A-RIT27-150	
Frequency range	450 - 470 MHz		150 – 165 MHz	
Synthesizer steps	6.25 kHz		2.5 kHz	
Frequency stability	+/-1.5 PPM (-30° to +60° C)		+/-2.5 PPM (-30° to +60° C)	
Modulation acceptance	wide narrow	+/- 5.0 kHz +/- 3.75 kHz	wide narrow	+/- 5.0 kHz +/- 3.75 kHz
Typical sensitivity (12 dB SINAD)	wide narrow	0.15 µV (-123 dBm) 0.19 µV (-121 dBm)	wide narrow	0.16 µV (-123 dBm) 0.18 µV (-122 dBm)
L.O. Injection	RX frequency – 43.65 MHz		RX frequency + 43.65 MHz	
Adjacent Channel (EIA)	wide narrow	-70 dB -60 dB	wide narrow	-70 dB -60 dB
Spurious rejection	wide narrow	-70 dB -60 dB	wide narrow	-70 dB -60 dB
Image rejection (EIA)	wide narrow	-60 dB -60 dB	wide narrow	-80 dB -80 dB
Intermodulation (EIA)	wide narrow	-65 dB -65 dB	wide narrow	-65 dB -65 dB
QC/DQC decode deviation requirement	wide narrow	500 – 850 Hz 350 – 500 Hz	wide narrow	500 – 850 Hz 350 – 500 Hz
2-Tone decode deviation requirement	wide narrow	2.5 – 3.5 kHz 1.5 – 2.5 kHz	wide narrow	2.5 – 3.5 kHz 1.5 – 2.5 kHz