





Harmonic Rejection	> 70 dBc @ Power Out
Supply Current	< 900 mA
Rx to Tx Switching	2 $\mu$ Sec
Maximum Ratings	Pin (Radio port) + 30 dBm Pin (Antenna port) + 27 dBm
System Filtering	An internal 3-pole filter in both Rx and Tx paths provides superior cosite performance achieving maximum dynamic range and low harmonic distortion
RF Connector Size	2.53" x 5.90" x 1.45" (N type jack connectors)
Weight	< 15 oz.
Chassis	Watertight diecast aluminum with black powder paint. Internal PCB is sealed via conformal coating to enhance weather protection.
Indicator LED	Green LED - Rx mode, Red LED - Tx mode.
Lightning Suppression	$\frac{1}{4}$ wavelength short

## Installation Guidelines

Each RLX-500 amplifier is equipped with internal  $\frac{1}{4}$  wave technology lightning protection. However, for additional protection, the RLX-500 kit provides additional lightning arrestors between the antenna and the RLX-500 amplifier and between the radio and the RLX-500 DC injector. This arrestor should be grounded properly with a heavy gauge ground 12AWG wire.

- 1 The RLX-500 amplification device is a RadioLinX subassembly and its use has been FCC approved for use in an RF system. The RLX-500 kit has been pre-designed to meet FCC approval and use under the following guidelines:
- 2 The bi-directional amplifier has been designed to operate with a cable loss between the radio and amplifier of 6.5 dB to 20 dB. Within this range, the output of the amplifier will always be  $\frac{1}{2}$  W regardless of the input level.
- 3 The amplifier may not be used with less than 6.5 dB cable loss.
- 4 Use of the amplifier outside of these guidelines will result in violation of 47 CFR Part 15 FCC Rules, under which the equipment has been authorized.
- 5 With more than 20 dB of coaxial cable loss, the amplifier will not turn on.
- 6 Maximum antenna transmit gain allowed for use with the RLX-500 amplifier is 15 dBi for point-to-point paths and 9 dBi for point-to-multipoint paths.

## Kit Contents

The RLX-500 Amplifier Kit includes:

Item	Description	Quantity
1	RLX-500 Amplifier (outdoor rated)	1
2	RLX-500 DC Injector (indoor rated)	1
3	12 VDC wall mount	1
4	Aluminum "L" Pole mounting bracket	1
5	$\frac{1}{4}$ -inch stainless steel pan head screws	2

Item	Description	Quantity
6	2.5 -inch stainless steel U bolt kit with hardware	1
7	Strips of coaxial seal tape	2
8	2 foot LMR-195 RA RP SMA plug to RA N plug Cable	1
9	3 foot LMR-195 RA N plug to N plug cable	2
10	N jack to N jack bulkhead lightning protector	1
11	N jack to N jack in-line lightning protector	1
12	Superflex 400 N plug to N plug extension cable (length varies with part number)	1

## Important Note:

The kit items shown in the table are only included when you order the entire RLX-500 kit. The kit will have a part number of RLX-500-XXX. If you only order part number RLX-500, you only receive items 1 through 7.

## Additional Products

ProSoft Technology offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms.

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## Ordering Information

To order this product, please use the following:

<b>RLX-500</b>	500 mW Power Amplifier with DC Injector
<b>RLX-500-050</b>	500 mW Power Amplifier Kit with 50 ft extension cable
<b>RLX-500-075</b>	500 mW Power Amplifier Kit with 75 ft extension cable
<b>RLX-500-100</b>	500 mW Power Amplifier Kit with 100 ft extension cable
<b>RLX-500-150</b>	500 mW Power Amplifier Kit with 150 ft extension cable
<b>RLX-500-200</b>	500 mW Power Amplifier Kit with 200 ft extension cable

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft distributors near you, go to <http://www.prosoft-technology.com>

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