

# RPT1+

## Wireless Repeater Module

### Installation Manual



## Introduction

The RPT1+ Wireless Repeater module will improve the range of your Magellan system. It also improves the range of the RTX3 when used with any Spectra SP control panel. It does this by retransmitting information from zones, PGMs, wireless keypads, and the control panel. Wireless sirens are not compatible with the RPT1+. With the RPT1+, all remote control signals are always repeated. You can have two RPT1+s per system (refer to the appropriate programming guide for instructions).

## Overview

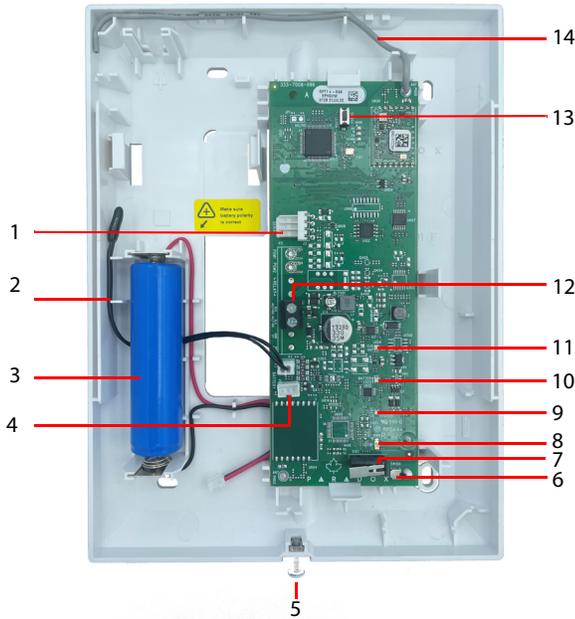


Figure 1: RPT1+ PCB

1. 307USB connector
2. Battery sensor
3. Li-iON battery
4. Battery connector
5. Captive screw
6. Wall tamper
7. Cover tamper
8. Power status LED
9. Panel status LED
10. Battery status LED
11. Upgrade status LED
12. Power connectors
13. Learn switch
14. Antenna

## Installation

1. Write down the serial number and location of the RPT1+ for later reference in order to insert into the Paradox BabyWare software.
2. Ensure that the RPT1+ is installed in a location free of obstacles. The hanging height must not be higher than 2 meters (6.6 feet).
3. Connect the Li-iOn battery.
4. Connect to a 12-24 Vac transformer or 12-24 Vdc power supply.

Note: The power supply must be limited to 15W.

**Note:** Do not cut, bend or alter the antenna. Avoid mounting the RPT1+ on metal, or in any location that could cause RF interference. Mount it as high as possible and in locations not susceptible to drastic temperature changes. Mount the RPT1+ in a location that allows at least 5 cm (2") around the module for adequate ventilation and heat dissipation.

## Programming

For a summary of programming sections, refer to the table below. For detailed information, see the system's respective programming guide.

Feature	MG5000 / MG5050 / MG5050+ Spectra SP / Spectra SP +	
	Repeater 1	Repeater 2
Assign Repeater to System	[545]	[546]
Signal Strength	[548]	[549]
Repeater Supervision	[587] Option [1]	[587] Option [2]
Repeat Zone 1 to 8	[552] Option [1] to [8]	[562] Option [1] to [8]
Repeat Zone 9 to 16	[553] Option [1] to [8]	[563] Option [1] to [8]
Repeat Zone 17 to 24	[554] Option [1] to [8]	[564] Option [1] to [8]
Repeat Zone 25 to 32	[555] Option [1] to [8]	[565] Option [1] to [8]
Repeat 2WPGM 1 to 8	[556] Option [1] to [8]	[566] Option [1] to [8]
Repeat 2WPGM 9 to 16	[557] Option [1] to [8]	[567] Option [1] to [8]
Repeat Wireless Keypads	[551]* Option [1] to [8]	[561]* Option [1] to [8]
Repeat All Remote Controls	Always	

\* The signals from only four keypads may be repeated by one RPT1+.

## LED Indicators

LED	Description
Power	ON (green) - AC/DC is connected OFF - AC/DC not connected, running on battery
Panel	Green Flashing - Connected to panel, strong signal strength Amber Flashing - Connected to panel, medium signal strength Red Flashing - Panel lost, weak signal Blue Flashing - RF jam detection
Battery	Green - Fully charged Amber - Charging Off - Battery is disconnected or AC loss
Upgrade	Amber flashing - firmware upgrade in progress

## Technical Specifications

Specification	Description
Power Input	12-24 VAC transformer or 12-24 VDC power supply
Backup Battery	Li-iON single cell 18650 3.7V (included) 2600 mAh 12 hours minimum (normal conditions)
Current Consumption	200 mA MAX
Range	Typical residential environment: 75m (240 ft) with 433 MHz 50m (160 ft) with 868 MHz
Operating Temperature	0°C to 50°C (32°F to 122°F)
Dimensions	15.24 x 20.32 x 2.54 cm (6 x 8 x 1 in.)
Certification	CE

### Warranty

For complete warranty information on this product please refer to the Limited Warranty Statement found on [www.paradox.com/terms](http://www.paradox.com/terms). Your use of the Paradox product signifies your acceptance of all warranty terms and conditions.

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