

# RTX3 Wireless Expansion Module V5.3

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P ▲ R ▲ D O X™



## Reference and Installation Manual

# Table of Contents

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Specifications.....	3
Hardware Compatibility.....	3
Overview .....	4
Description .....	4
Features .....	4
Installation .....	6
Antenna Installation .....	7
System Reset.....	7
LED Feedback .....	8
Programming .....	9
Programming RTX3 for Spectra SP Series Panels.....	9
Programming for EVO Series Panels.....	9
Programming Stand-Alone RTX3 Modules.....	17
Firmware Upgrade .....	20
Index .....	21

## Specifications

Power input voltage:	12Vdc
Frequency:	433MHz or 868MHz
Sensitivity:	-120 dBm
Current consumption:	50 mA
Dimensions and Weight:	15cm x 16cm x 3cm (6in x 6.5in x 1.1in) / 24g
Operating temperature:	0°C to 49°C (32°F to 120°F)
Humidity:	5 - 90%
PGM outputs:	PGM1 and PGM2 - 150mA PGM transistor outputs PGM3 - form C relay output rated at 5A/28Vdc, N.O./N.C. (PGM4 optional)
Range:	Refer to the appropriate transmitter <i>Instructions</i>
Other:	Di-pole antenna; Error Correction Algorithm
Approvals:	EN50131-3: Security Grade 2, Environmental Class II, Certification Body Intertek For the latest information on product approvals, visit our website at <a href="http://www.paradox.com">www.paradox.com</a>

## Hardware Compatibility

	<b>EVO</b>	<b>Spectra SP</b>	<b>Stand Alone</b>
Zones	32	32	32
Remotes	32/96/999	32	32
Remote Control Type	REM1 RAC1 REM2 RAC2 REM3 REM15	REM1 RAC1 REM2 RAC2 REM3 REM15	REM1 REM15
Wireless PGMs	8	16	-
Wireless Keypads	-	8	-
Wireless Siren	8	4	-
Wireless Repeater	-	2	-
PX8 Output Module	-	-	4

## Overview

This chapter provides an overview of the RTX3 Wireless Expansion Module (“RTX3”), including the package contents provided with the RTX3, the system features and an overview of the RTX3 components.

## Description

The RTX3 is a 2-way, 32 zone wireless expansion module which enables EVO and Spectra SP Series control panels to support wireless hardware such as sirens, motion detectors and remote controls.

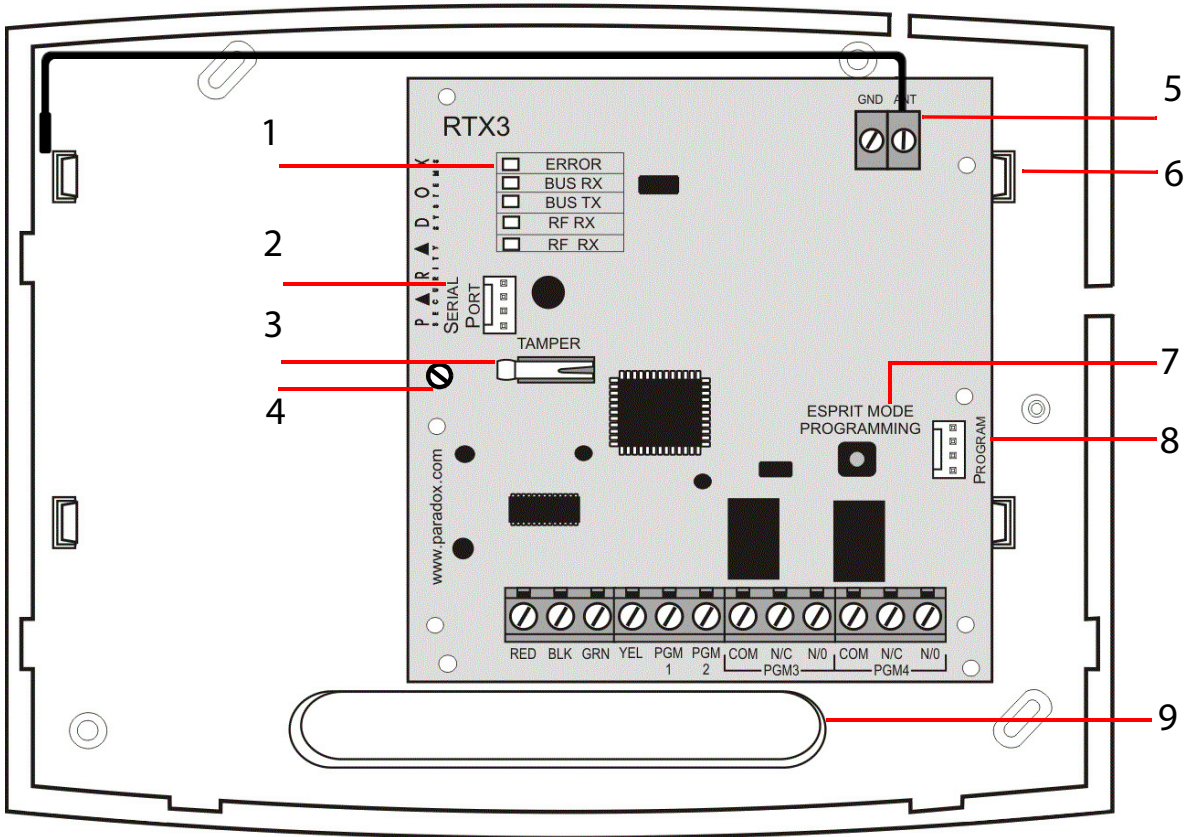
<b>Included Items</b> <b>Antenna</b>
<b>Required/Optional Items</b> <ul style="list-style-type: none"><li>• Mounting hardware</li><li>• Optional 12Vdc external power supply (PS17)</li></ul>
<b>Compatibility</b> <ul style="list-style-type: none"><li>• EVO 192 / EVOHD control panels</li><li>• Spectra SP series control panels</li></ul>

## Features

- Up to 32 wireless zones
- Support for REM1 / REM2 / REM3/ REM15 / RAC1 / RAC2 remote controls
- Support for wireless PGMs
- Support for all Magellan transmitters including 2WPGM
- Support for two RPT1 and eight K32RF / K37 (SP Series only)
- Support for SR130 / SR150 Wireless Sirens and RPT1 Wireless Repeater (EVO and SP Series)
- Support for PX8 Output Module
- In-field firmware upgrade through BabyWare software via serial or 4-wire connection
- RF jamming supervision
- Low battery, tamper and check-in supervision
- Transmitter signal strength display
- 3 PGM outputs and 1 optional output
- Noise level test and indicator

# RTX3 Board and Connectors

The following graphic displays the RTX3 board and connectors.

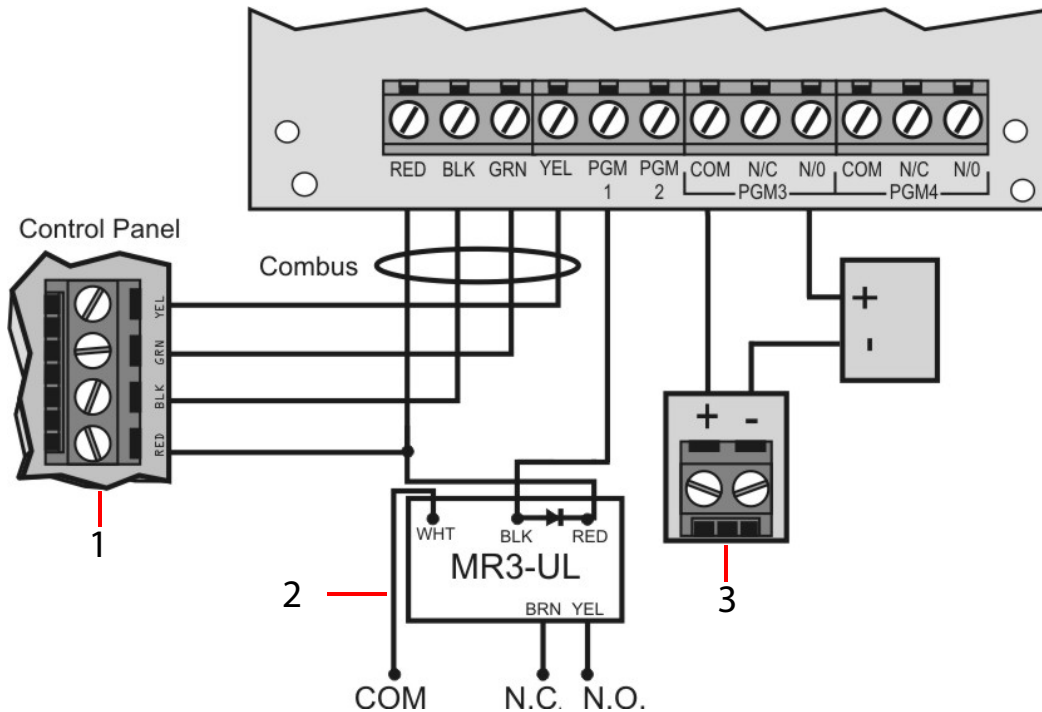


**Figure 1: RTX3 Board and Connectors**

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. LED display (see <a href="#">LED Feedback</a> on page 8)</li> <li>2. Firmware upgrade serial connector (see <a href="#">Firmware Upgrade</a> on page 20)</li> <li>3. Anti-tamper switch</li> <li>4. PCB screw</li> <li>5. Antenna</li> <li>6. Mounting clips</li> </ol> | <ol style="list-style-type: none"> <li>7. Mode Programming button: Used for programming Stand Alone RTX3 modules (see <a href="#">Stand Alone Programming</a> on page 17 and System Reset (see <a href="#">System Reset</a> on page 7)</li> <li>8. Program connector: Connect the keypad to the Program connector to program in Stand Alone mode</li> <li>9. Wiring slot</li> </ol> |
|---|---|

# Chapter 1: Installation

This section describes how to connect the RTX3.  
The following diagram displays RTX3 installation.



**Figure 2: RTX3 Installation**

1. Control panel Digiplex connection.

**Notes:**

- When using the RTX3 as a stand-alone device: connect an external 12Vdc power supply to the RED and BLK terminals
  - Battery backup is recommended
2. Use a relay if the current draw exceeds 150mA on PGM1 or PGM2. Connect the RTX3's RED connector to the relay's RED connector, and the RTX3's PGM connector (PGM1 or PGM2) to the relay's BLK connector.
  3. Connect PGM3 and PGM4 to external power supplies if additional power is required. A PS-817 is recommended. Connect the PGM's N/O connector to the external power supply's "+" connection. Connect the power supply's "-" connector to the device's "-" connector. Connect the PGM's COM connector to the device's "+" connector.

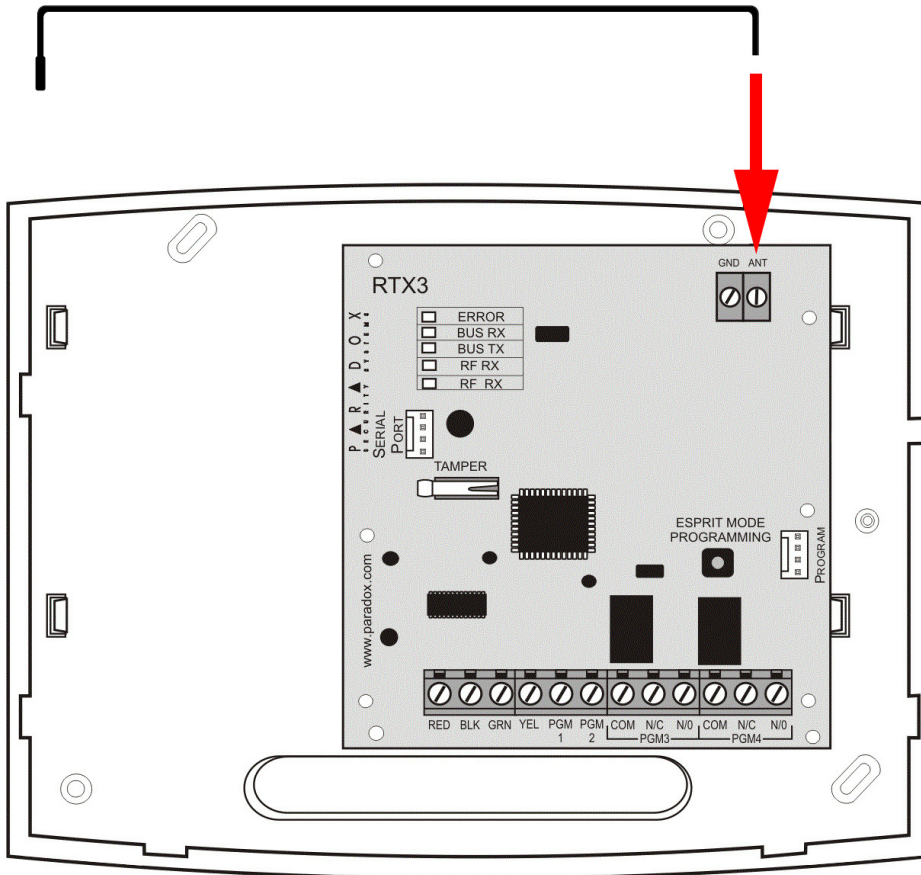
**Note:** Write down the serial number of all wireless modules used with the RTX3.



## Antenna Installation

Secure the antenna to the **ANT** terminal connector as displayed below.

**Note:** A 433 MHz antenna is displayed.



**Figure 3:Antenna Connection**

## System Reset

System Reset restores the RTX3 factory settings.




**IMPORTANT:** System Reset only functions during the first 30 seconds after RTX3 power up.






### To reset the system:













1. Press and hold the **Programming** button for 5 seconds.  
The **BUS RX** LED flashes (see [LED Feedback](#) on page 8).
2. Release the button and press it again while the LED flashes to reset the RTX3 default settings.

# LED Feedback

The following tables display LED feedback.

Legend	
R = Red	 = Off
G = Green	 = On
Y = Yellow	 = Flashing

<b>ERROR</b>  Problem with the module
<b>BUS RX</b>  Receiving from panel
<b>BUS TX</b>  Transmitting to panel
<b>RF RX</b>  Receiving wireless
<b>RF TX</b>  Transmitting wireless

<b>ERROR</b>  Com fail: GRN/YEL
<b>BUS RX</b>  short / no data
<b>BUS TX</b> 
<b>ERROR</b>  Com fail: too many
<b>BUS RX</b>  modules / wrong data
<b>BUS TX</b> 
<b>ERROR</b>  Com fail: GRN/
<b>BUS RX</b>  YEL reversed
<b>BUS TX</b> 
<b>ERROR</b>  Combus power
<b>BUS RX</b>  too low
<b>BUS TX</b> 



# Chapter 2: Programming

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This section describes how to program the RTX3 for Spectra SP series control panels, EVO series control panels and for stand-alone installations.

## Programming RTX3 for Spectra SP Series Panels

When connected to a Spectra SP Series control panel, RTX3 settings are programmed through control panel programming sections. For detailed instructions refer to the *Spectra SP Series Programming Guide*.

### Notes:

- Programming for a Spectra SP series system requires K32 or K10V/H keypads v2.0 or higher
- Only one RTX3 module can be connected to a Spectra SP Series panel

## Programming for EVO Series Panels

Program RTX3 settings for EVO panels with either a keypad or BabyWare PC software.

### Programming RTX3 with a Keypad

When connected to an EVO panel, program RTX3 settings through the keypad by entering Module Programming Mode.

#### To enter Module Programming mode:

1. Press and hold the **[0]** key.
2. Enter the **[INSTALLER CODE]**.
3. Enter section **[4003]**.
4. Enter the module **[SERIAL NUMBER]**.
5. Enter the required **[DATA]**.

**Note:** When used without a K641 or K641R keypad, enable EVO option **[1]** in section **[3029]**.

### After Programming RTX3 for EVO Control Panels

Program the zones, PGMs, sirens and remote controls into the EVO panel. Refer to EVO section **[3034]** and RTX3 section **[001]\*** options **[2]** and **[3]** for wireless transmitter supervision options. **Requirement:** Configure all wireless sirens in an EVO system to a single RTX3.

\* For instructions on entering 3-digit RTX3 section numbers see [RTX3 Programming Sections for EVO Panels](#) on page 10.

## RTX3 Programming Sections for EVO Panels

Section	Feature	Details
[001]	Option	
[1]	Low battery supervision	For RTX3 version 1.5 and higher, this option is always on <b>ON:</b> default
[2]	Check-in supervision	<b>OFF:</b> default
[3]	Check-in supervision time interval	<b>OFF:</b> 24 hours (default) <b>ON:</b> 80 minutes
[4]	RF Jamming supervision	<b>OFF:</b> default
[5]	On-board module tamper supervision	<b>OFF:</b> default
[6]	PGM1 initial state	<b>OFF:</b> Normally Open (default) <b>ON:</b> Normally Closed
[7]	PGM2 initial state	<b>OFF:</b> Normally Open (default) <b>ON:</b> Normally Closed
[8]	Transmit tamper signal	<b>OFF:</b> RTX3 ignores tamper signal (default) <b>ON:</b> RTX3 reports tamper signal
[002]	<b>Remote Control Options</b>	
[1]	REM2 visual and auditory feedback compatibility options*	<b>OFF:</b> Old visual and auditory feedback (Supported by REM2 v2.00 or lower) <b>ON:</b> New visual and auditory feedback (default)  <b>Note:</b> Requires REM2 v2.01 and higher

Section	Feature	Details
		* The new visual and auditory feedback includes the following system status: stay armed, instant armed and exit delay. Other status feedback has not changed. For REM2 v1.04 or older, stay arm, instant arm and exit delay status are not supported, and a rejection beep will be heard when the system is in these status.
[030]	<b>View Transmitter, Remote Control and PGM Serial Numbers</b>	<b>To view a transmitter's 6-digit serial number:</b> Press and hold the transmitter's anti-tamper switch
See Details	<b>Remote Controls</b>	To program remotes controls: <ul style="list-style-type: none"> <li>• Refer to <i>User Code</i> and <i>Remote Control Programming</i> sections in the <i>EVO Programming Guide</i> OR:</li> <li>• Program through BabyWare</li> </ul> <b>Note:</b> When programming remote controls (excepting a DSP series keypad) for a system, enable EVO option [1] in section [3029] and refer to <i>RTX3 Remote Control Programming for EVO</i> on page 15
[601] to [632]	<i>Transmitter signal strength</i>	[601] = Zone input 1 [632] = Zone input 32 3 or less = weak (move transmitter) 4 to 10 = OK
[701] to [732]	<i>Current battery life</i>	[701] = Zone input 1 [732] = Zone input 32 View number of weeks the batteries have been in the transmitter.
[801] to [832]	<i>Previous battery life</i>	[801] = Zone input 1 [832] = Zone input 32 View number of weeks the previous batteries were in the transmitter

<b>Section</b>	<b>Feature</b>	<b>Details</b>
[671] to [678]	<b>2WPGM Signal Strength</b>	Sections [671]-[678] correspond to Zone inputs 1 - 8 Signal Strength: <ul style="list-style-type: none"> <li>• 3 or less: weak - move transmitter</li> <li>• 4 to 10: ok</li> </ul>
[901] to [908]	<b>Assign 2WPGMs</b>	Sections [901]-[908] correspond to Zone inputs 1 - 8 <b>To assign 2WPGMs:</b> Enter a 6-digit serial number or press and release the transmitter's tamper switch <b>To delete an assigned 2WPGM:</b> Enter 000000 as a serial number <b>Note:</b> If a section between [901] to [904] is empty, the RTX3 uses the on board PGM
[910] to [989]	<b>PGM Programming</b>	To program Two-Way PGM activation event, deactivation event and PGM Delay options, see <i>RTX3 PGM Options for EVO</i> on page 14
[991]	<b>View two-way PGM Tamper Trouble</b>	PGM # in tamper trouble is displayed
[992]	<b>View two-way PGM Supervision Trouble</b>	PGM # in supervision trouble is displayed
[2850]	<b>Assign RTX3</b>	Assign the RTX3 that the sirens will be configured to
<b>Note:</b> The following programming sections correspond to sirens 1-8 EXAMPLE: [2852]: Learn Siren 2		

Section	Feature	Details
[2851] to [2858]	<b>Learn Siren</b>	Press and hold the <b>Reset/Training</b> switch for 3 seconds after entering the section to learn the siren <b>WARNING:</b> When pressing the Reset/ Training switch, the SR130/SR150 squawks and the strobe light flashes five times to confirm siren registration to the panel
[2861] to [2868]	<b>Assign Partition to Siren</b>	Assign sirens to either one partition or to all eight partitions. <b>00:</b> Assigned to ALL 8 partitions <b>01-08:</b> Assign to selected partition
[2871] to [2878]	<b>Display Siren Signal Strength</b>	Press and hold the <b>Reset/Training</b> switch for 3 seconds after entering the section to display the siren signal strength that the panel receives. Requires keypad K32LCD V1.3 and higher
[2870]	<b>Temporary Siren Tamper Switch Deactivation for Maintenance</b>	Press <b>[ENTER]</b> after entering the section to deactivate tamper alarm until the cover is reinstalled or after 30 minutes

# RTX3 PGM Options for EVO

## PGM Activation

PGM Number	Event Group	Feature Group	Start #	End #
PGM1	[910]	[911]	[912]	[913]
PGM2	[920]	[921]	[922]	[923]
PGM3	[930]	[931]	[932]	[933]
PGM4	[940]	[941]	[942]	[943]
PGM5	[950]	[951]	[952]	[953]
PGM6	[960]	[961]	[962]	[963]
PGM7	[970]	[971]	[972]	[973]
PGM8	[980]	[981]	[982]	[983]
Default Data	000	000	000	000

## PGM Deactivation

PGM Number	Event Group	Feature Group	Start #	End #
PGM1	[914]	[915]	[916]	[917]
PGM2	[924]	[925]	[926]	[927]
PGM3	[934]	[935]	[936]	[937]
PGM4	[944]	[945]	[946]	[947]
PGM5	[954]	[955]	[956]	[957]
PGM6	[964]	[965]	[966]	[967]
PGM7	[974]	[975]	[976]	[977]
PGM8	[984]	[985]	[986]	[987]

**Note** For all events see PGM programming section in *EVO Programming Guide* (default data is set to 000).

[1]	[8]
OFF	OFF
OFF	ON
ON	OFF
ON	ON

Deactivation Event  
Deactivation Event  
PGM Timer  
PGM Timer or  
Deactivation Event

PGM Number	PGM Delay	
	Delay (000-255)	Options
PGM1	[918]	[919]
PGM2	[928]	[929]
PGM3	[938]	[939]
PGM4	[948]	[949]

PGM5	[958]	[959]
PGM6	[968]	[969]
PGM7	[978]	[979]
PGM8	[988]	[989]
Default Data	005	OFF

The following options apply to sections [919], [929]... [989]:

**Option [1]:** PGM deactivation after:

See table on right

**Option [2]:** PGM base time:

ON: Minutes

OFF: Seconds (default)

**Option [8]:** Flexible PGM deactivation\*:

See table on right





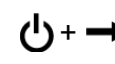






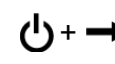






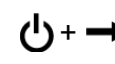


\* **Requirement:** To program “Flexible PGM deactivation” (option [8]) the “PGM deactivation after option” (option [1]) must be ON.

## RTX3 Remote Control Programming for EVO

IMPORTANT: The following section **does not** apply to DGP series keypads.

Section	Feature	Details
[040] to [043]	<b>View or Delete used Remote Controls</b>	<p>Each section includes 8 positions corresponding to 8 remote controls programmed in the system (the system enables up to 32 remote controls).  EXAMPLES: [040]: remote controls 1 to 8.  [043]: remote controls 25 to 32</p> <p><b>To view/delete remote controls:</b></p> <ol style="list-style-type: none"> <li>1. Enter a section</li> <li>2. Select the remote control position corresponding to the remote control to be deleted</li> <li>3. Press [ENTER]. Any remote control position displaying * will be deleted</li> </ol>



Section	Feature	Details																		
[201] to [232]	<b>Assign Remote Controls to the System</b>	Sections [201]-[232] correspond to remote controls 1-32 <b>To assign remote controls to the system:</b> 1. Enter a section 2. Press and hold a button on the remote control until you hear a confirmation beep. The remote control is assigned																		
[301] to [332]	<b>Assign Remote Controls to Users</b>	Sections [301]-[332] correspond to remote controls 1-32 <b>To assign remote controls to Users:</b> 1. Select a remote control: Enter a section. 2. Enter a User number (001 to 255) in the appropriate section (corresponding to Users 001 to 255)																		
[401] to [432]	<b>Program / Modify Remote Control Settings</b> Sections [401]-[432] correspond to remote controls 1-32. ____ / ____ / ____ / ____ / ____ / ____ / ____ / ____ (Default:15000000 - regular arm + disarm, see below) <table border="0" data-bbox="406 1113 1380 1239" style="width: 100%; text-align: center;"> <tr> <td></td> <td></td> <td></td> <td></td> <td>N/A</td> <td></td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td></td> <td></td> <td>•</td> <td>•</td> <td>N/A</td> <td>• + •</td> <td>N/A</td> <td>N/A</td> </tr> </table> <table border="0" data-bbox="365 1260 1380 1690" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;">           [0]: Button disabled            [1]: Regular arm            [2]: Stay arm            [3]: Instant arm            [4]: Force arm            [5]: Disarm            [6]: Stay/instant disarm            [7]: Panic 1 (Police)            [CLEAR]: Exit without saving         </td> <td style="width: 50%; vertical-align: top;">           [8]: Panic 2 (non-medical)            [9]: Panic 3 (fire)            [STAY]: Smoke reset            [FORCE]: Utility key 1            [ARM]: Utility key 2            [DISARM]: Utility key 3            [BYP]: Utility key 4            [MEM]: Utility key 5            [ENTER]: Save data         </td> </tr> </table>						N/A		N/A	N/A			•	•	N/A	• + •	N/A	N/A	[0]: Button disabled [1]: Regular arm [2]: Stay arm [3]: Instant arm [4]: Force arm [5]: Disarm [6]: Stay/instant disarm [7]: Panic 1 (Police) [CLEAR]: Exit without saving	[8]: Panic 2 (non-medical) [9]: Panic 3 (fire) [STAY]: Smoke reset [FORCE]: Utility key 1 [ARM]: Utility key 2 [DISARM]: Utility key 3 [BYP]: Utility key 4 [MEM]: Utility key 5 [ENTER]: Save data
				N/A		N/A	N/A													
		•	•	N/A	• + •	N/A	N/A													
[0]: Button disabled [1]: Regular arm [2]: Stay arm [3]: Instant arm [4]: Force arm [5]: Disarm [6]: Stay/instant disarm [7]: Panic 1 (Police) [CLEAR]: Exit without saving	[8]: Panic 2 (non-medical) [9]: Panic 3 (fire) [STAY]: Smoke reset [FORCE]: Utility key 1 [ARM]: Utility key 2 [DISARM]: Utility key 3 [BYP]: Utility key 4 [MEM]: Utility key 5 [ENTER]: Save data																			

## Programming Stand-Alone RTX3 Modules

The RTX3 can be used as a Stand-Alone module. This section describes how to program the RTX3 in Stand-Alone mode.

### Requirement

Use a PX8 in conjunction with the RTX3 to program wireless transmitters in Stand-Alone mode (see the PX8 Instructions for more information).





### To enter Programming mode:

1. Connect a 636 or 646 keypad to the **Program** connector (see #8 in [Figure 1 on page 5](#)).
2. Press the **Mode Programming** button (see #7 in [Figure 1 on page 5](#)).
3. Press [ENTER] on the Esprit keypad.
4. Enter the installer code (default: 757575).
5. Enter the required section number.

## Stand Alone Programming

Section	Feature	Details
[000]	<b>Installer Code</b>	Set installer code (4 or 6 digits. Default: 757575)
[004]	<b>PGM Initial State</b>	
	Option	
	[6]	PGM1 initial state OFF: Normally open (default) ON: Normally closed
[7]	PGM2 initial state OFF: Normally open (default) ON: Normally closed	
[201] to [232]	<b>Remote Control Assignment</b>	Sections [201]-[232] correspond to remote Controls 1- 32 <b>To assign a remote control:</b> 1. Press [ENTER]. 2. After the confirmation beep, press and hold any button on the remote until you hear two beeps. <b>To delete a remote control:</b> Press [2ND] followed by [ENTER].

Section	Feature			Details
[401] to [432]	<b>Remote Control Button Options</b>			
	Sections [401]-[432] correspond to remote controls 1-32.			
	Option			
	[1]	[2]	[3]	Definition*
	OFF	OFF	OFF	No Arm or Disarm
	ON	OFF	OFF	Regular Arm (default)
	OFF	ON	OFF	Regular Arm
	ON	ON	OFF	Regular Arm Regular Arm
	OFF	OFF	ON	Force Arm
	ON	OFF	ON	Force Arm Stay Arm
	OFF	ON	ON	Regular Arm Stay Arm
	ON	ON	ON	Stay Arm
	* Buttons used to arm the system are also used to disarm the system			
Option				
[4]	To select PGM see section [011]		Enable button  for PGM activation Default: ON	
[5]	To select PGM see section [012]		Enable button  for PGM activation Default: ON	
[6]	To select PGM see section [013]		Enable button  for PGM activation Default: ON	
[7]	To select PGM see section [014]		Enable button  for PGM activation Default: ON	
[8]			Enable button  +  for Panic Alarm (default: ON)	

Section	Feature	Details	
[011] to [014]	<b>PGM Output Activation</b> [011]: Remote Button  [012]: Remote Button  [013]: Remote Button  [014]: Remote Button 	See sections [401] to [432]	
	Option		
	[1]	Activate PGM 1 output	Default <b>ON</b> in section [011]
	[2]	Activate PGM 2 output	Default <b>ON</b> in section [012]
	[3]	Activate PGM 3 output	Default <b>ON</b> in section [013]
	[4]	Activate PGM 4 output	Default <b>ON</b> in section [014]
[021] to [024]	<b>PGM Latch / Delay</b>		
	Sections [021]-[024] correspond to PGMs 1-4		
	Option		
	[0]	Latched	
	[1]	1 second	
	[2]	5 seconds	(default)
	[3]	10 seconds	
	[4]	20 seconds	
	[5]	40 seconds	
	[6]	60 seconds	
	[7]	2 minutes	
	[8]	4 minutes	

Section	Feature		Details
[002]	<b>PGM Output on Panic</b>		(default)
	Option		
	<b>[0]</b>	No PGM output on panic alarm	
	<b>[1]</b>	Toggle PGM 1 on panic alarm	
	<b>[2]</b>	Toggle PGM 2 on panic alarm	
	<b>[3]</b>	Toggle PGM 3 on panic alarm	
	<b>[4]</b>	Toggle PGM 4 on panic alarm	

## Firmware Upgrade

Upgrade RTX3 firmware using either a serial connection or a four-wire connection.

For firmware upgrade instructions see the *Firmware Upgrade Instructions* document at: [Paradox.com](http://Paradox.com) > Software > BabyWare.

# Index

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## Sections

2WPGM	
<i>Assigning</i> .....	14
<i>Signal strength</i> .....	13

## A

Antenna installation .....	8
Antennas .....	6
Anti-tamper switch .....	6
Approvals .....	4
Assign partition to siren.....	14
Assign RTX3.....	14
Assign wireless transmitters .....	13

## B

Battery life .....	13
--------------------	----

## C

Check-in supervision .....	12
Check-in supervision time interval .....	12
Code length .....	19
Compatibility .....	4
Consumption .....	4
Current battery life .....	13
Current consumption .....	4

## D

Dimensions .....	4
Display Siren Signal Strength.....	14

## E

EN50131 .....	4
Esprit .....	17
Esprit mode .....	6
EVO .....	11

## F

Firmware upgrade .....	20
Frequency .....	4

## I

Imperial .....	10
Input voltage .....	4
Installation .....	7
Installer code .....	17

## K

K641 .....	11
------------	----

## L

Learn Siren.....	14
LED display .....	6
LED feedback .....	6, 9
Low battery supervision .....	12

## M

Module programming mode (EVO) .....	11
Mounting clips .....	6

## O

On-board module tamper supervision .....	12
Operating temperature .....	4

## P

Panic alarm .....	19
PGM	
<i>Activation</i> .....	14
<i>Deactivation</i> .....	15
<i>Delay</i> .....	15
<i>initial state</i> .....	12, 17
<i>Latch / delay</i> .....	19
<i>Options for EVO</i> .....	14
<i>Output activation</i> .....	19
<i>output on panic</i> .....	20
<i>outputs</i> .....	4
<i>Programming</i> .....	14
<i>Supervision trouble</i> .....	14
<i>Tamper trouble</i> .....	14
Power input voltage .....	4
Previous battery life .....	13
Programming .....	10
Programming button .....	6

## R

REM2 visual and auditory feedback .....	12
---	----



Remote control assignment .....	17
Remote control button options .....	18
Remote controls .....	13
Reset .....	8
RF Jamming supervision .....	12
RF lockout on panic .....	20

## **S**

Sensitivity .....	4
Signal strength .....	13
Specifications .....	4
Spectra SP series .....	10
Stand alone .....	17, 20
System reset .....	8

## **T**

Temperature .....	4
Temporary Siren Tamper Switch Deactivation.....	14
Transmitter signal strength .....	13
Transmitter tamper signal .....	12

## **U**

User code assignment .....	17
----------------------------	----

## **V**

View serial numbers .....	12
Voltage .....	4

## **W**

Warranty .....	24
Wireless transmitter supervision options .....	11
Wiring slot .....	6





## **Patents**

One or more of the following US patents may apply: 7046142, 6215399, 6111256, 6104319, 5920259, 5886632, 5721542, 5287111, 5119069, 5077549 and RE39406 and other pending patents may apply. Canadian and international patents may also apply.

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