



- What's New with Version 1.5 • Added support for the REM3 on EVO panels (requires EVO V2.1 or higher)
- Added support for 4 wireless sirens (SR150) on Spectra SP panels (requires Spectra SP V4.0 or higher)

## Introduction

The RTX3 is a 2-Way Wireless Expansion Module for use with any Digiplex EVO, Spectra SP, and Esprit series control panel. It is also compatible with the DGP-NE96 and DGP-848 control panels.

Compatibility Chart								
EVO Spectra SP Esprit Stand Alone								
Zones	32	32	-	32				
# of Remotes	32/96/999	32	32	32				
Remote Type	REM1 REM2 REM3	REM1 REM2 REM3	REM1	REM1				
Wireless PGMs	8	16	-	-				
Wireless Keypads	-	8	-	-				
2-Way Remote	1	1	-	-				
Wireless Siren	-	4	-	-				
Wireless Repeater	-	2	-	-				
PX8 Output Module	-	-	-	4				

# **Before Programming**

- Connect the RTX3 according to the installation guide.
- Write down the serial number of all wireless modules to be used with 2. the RTX3. If this installation replaces another RTX3, make sure the programming can be transferred.
- Make sure every wireless module works properly and that you have the latest version of the firmware for the RTX3 and panels. 3.

# System Reset

Press and hold the Programming button for 5 seconds, the BUS RX LED will flash. Release the button and press it again while the LED flashes to reset the module to its default values. The system reset feature only functions during the first 30 seconds after the RTX3 is powered up.

# Spectra SP Series Programming

When connected to a Spectra SP series panel, the RTX3 settings are programmed into the panel. Refer to the panel's Programming Guide. Requires version 2.0 or higher of the K32 or K10V/H keypads. You can only connect one RTX3 to a Spectra SP Series panel.

# **Digiplex EVO Programming**

To enter programming mode with a Digiplex EVO panel, press and hold the **[0]** button. Enter the installer code and go to section **[4003]**. Enter the RTX3's 8-digit serial number. Enter the section number you wish to program.

## After Programming with EVO

Program the zones, PGMs, and remotes into the EVO panel. Look at EVO section [3034] and RTX3 section [001] options [2] and [3] for wireless transmitter supervision options.



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

	Table 1: Digiplex EVO Programming	The foll					
	RTX3 Options	Option					
	Option [1]: Low battery supervision (default: ON) - For RTX3 version 1.5 and higher, this option is always ON.	Ontion					
	Option [2]: Check-in supervision (default: OFF) Option [3]: Check-in supervision time interval OFF = 24 hours (default)	Option					
[001]	ON = 80 minutes Option [4]: RF Jamming supervision (default: ON) Option [5]: On-board module tamper supervision (default: OFF) Option [6]: PGM1 Initial State	Option					
	OFF = Normally Open (default) ON = Normally Closed						
	Option [7]: PGM2 Initial State OFF = Normally Open (default) ON = Normally Closed	[040] 1					
	Option [8]: Ignore transmitter tamper signal OFF = RTX3 ignores tamper signal (default) ON = RTX3 reports tamper signal	[201]					
	Remote Control Options Option [1]: REM2 Visual and auditory feedback compatibility options*						
[002]	OFF = Old visual and auditory feedback. (Supported by REM2 V2.00 or higher) ON = New visual and auditory feedback. (REM2 V2.01 or higher with K641 / K641R keypads.) (Default)	[301] 1					
[030]	View Transmitter, Remote and PGM Serial Numbers To view a transmitter's 6-digit serial number, press and hold the transmitter's anti-tamper switch.						
[101] to [132]	Assign Wireless Transmitters [101] = Zone Input 1; [132] = Zone Input 32 Enter 6-digit serial number or press and release the transmitter's tamper switch. To delete an assigned transmitter, enter 000000 as a serial number.						
See text	Remote Controls To program REM1/REM2/REM3 remotes controls, refer to User Code and Remote Control Programming in the EVO Programming Guide or program remotes using WinLoad. NOTE: If programming REM1/REM2 remotes for a system that does not include a K641/K641R keypad, enable EVO option [1] in section [3029] and refer to Table 3 (maximum of 32 remotes).						
[601] to [632]	Transmitter Signal Strength						
[701] to [732]	Current Battery Life [701] = Zone Input 1; [732] = Zone Input 32 View number of weeks the batteries have been in the transmitter.						
[801] to [832]	Previous Battery Life [801] = Zone Input 1; [832] = Zone Input 32 View number of weeks the previous batteries were in the transmitter.						
[671] to [678]	Two-Way PGM Signal Strength [671] = PGM 1; [678] = PGM 8 3 or less = weak (move transmitter); 4 to 10 = OK.						
[901] to [908]	Assign Two-Way PGMs [901] = PGM 1; [908] = PGM 8 Enter 6-digit serial number or press and release the transmitter's tamper switch To delete an assigned Two-Way PGM, enter 000000 as a serial number. If a section between [901] to [904] is empty, the RTX3 will use the on-board PGM.						

[901] to [908]	Enter 6-digit serial number or press and release the transmitter's tamper switch To delete an assigned Two-Way PGM, enter 000000 as a serial number. If a section between [901] to [904] is empty, the RTX3 will use the on-board PGM.
[910] to [989]	<b>PGM Programming</b> Program the Two-Way PGM activation event, deactivation event and PGM Delay options. Refer to Table 2.
[991]	View Two-Way PGM tamper trouble (PGM # in trouble will be displayed)
[992]	View Two-Way PGM supervision trouble (PGM # in trouble will be displayed)

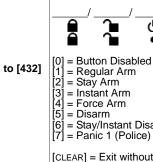
\* The new visual and auditory feedback includes the following system statuses: stay armed, instant armed and exit delay. Other statuses' feedback have not changed. Note that for REM2 versions 1.04 or older, stay arm, instant arm and exit delay statuses are not supported, and a rejection beep will be heard when the system is in these statuses.

	PGM Activation*				PGM Deactivation*				PGM Delay	
	Event Group	Feature Group	Start #	End #	Event Group	Feature Group	Start #	End	Delay (000 to 255)	Options
PGM1	[910]	[911]	[912]	[913]	[914]	[915]	[916]	[917]	[918]	[919]
PGM2	[920]	[921]	[922]	[923]	[924]	[925]	[926]	[927]	[928]	[929]
PGM3	[930]	[931]	[932]	[933]	[934]	[935]	[936]	[937]	[938]	[939]
PGM4	[940]	[941]	[942]	[943]	[944]	[945]	[946]	[947]	[948]	[949]
PGM5	[950]	[951]	[952]	[953]	[954]	[955]	[956]	[957]	[958]	[959]
PGM6	[960]	[961]	[962]	[963]	[964]	[965]	[966]	[967]	[968]	[969]
PGM7	[970]	[971]	[972]	[973]	[974]	[975]	[976]	[977]	[978]	[979]
PGM8	[980]	[981]	[982]	[983]	[984]	[985]	[986]	[987]	[988]	[989]
Default Data	000	000	000	000	000	000	000	000	005	OFF

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

0

on [1]: PGM deactivation after: See table on right							
ON :	on [2]: PGM base time: ON = Minutes OFF = Seconds (default)						
	ible PGM deactivation* table on right						
Tabl							
0] to [043]	View or Delete Used [040] = remotes 1 to 8 To delete a remote, pr						
1] to [232]	Assigning Remote C [201] = remote 01; [23 Enter the desired sect confirmation beep.						
1] to [332]	Assign Remotes Cor Assign the remote con (Users 001 to 255, Se						
	Program or Delete R						





### **Table 2: EVO PGM Option Programming**

[1]	[8]	
OFF	OFF	<b>Deactivation Event</b>
		<b>Deactivation Event</b>
ON	OFF	PGM Timer
ON	ON	PGM Timer <u>or</u>
		Deactivation Event

\* For a complete list of events, refer to the PGM programming section of your Digiplex or Digiplex EVO control panel's Programming Guide.

\*\* In order to use the "Flexible PGM deactivation" option (option [8]), the PGM deactivation after option (option [1]) must be ON.

#### le 3: Programming Without a K641/K641R

#### Remotes

3; [043] = remotes 25 to 32.

ress the corresponding number until it is no longer displayed in these sections. controls to the System

#### 32] = remote 32

tion and then press and hold a button on the remote control until you hear a

#### ntrols to Users

ntrols to users by entering a user number (001 to 255) in the appropriate section ection [301] = remote 01, section [332] = remote 32.) emote [401] = remote 01; [432] = remote 32 (default: 1500000) N/A ப்+→ N/A N/A see Figure 1 (h)

•	N/A	• + •	N/A	N/A	see Figure 2	
ed Disarm ce)	[8] [9] [STAY] [FORCE] [ARM] [DISARM] [BYP] [MEM]	= Panic = Smol = Utility = Utility	y Key 2 y Key 3 y Key 4	Medica	al)	
out saving	[ENTER]	= Save	data			

## Figure 1: REM1

### Figure 2: REM2



# **Esprit and Stand Alone Programming**

To enter programming mode with Esprit or in Stand Alone mode, connect an Esprit 636 or 646 to the "Program" connector. Press the "Esprit Mode Programming" button. Press [Enter] on your Esprit keypad and enter the installer code (default: 757575). Enter the desired section number.

Table 4: Esprit Programming

[000]	Installer Code Set Installer Code (4 or 6 digits, default: 757575)
[004]	Option [6]: PGM1 Initial State OFF = Normally Open (default) ON = Normally Closed Option [7]: PGM2 Initial State OFF = Normally Open (default) ON = Normally Closed
[101] to [132]	Wireless Transmitter Assignment [101] = Zone Input 1; [132] = Zone Input 32 Enter 6-digit serial number or press and release the transmitter's tamper switch. To delete an assigned transmitter, enter 000000 as a serial number.
[301] to [332]	User Code Assignment Assign a valid user code from the Esprit Panel into the RTX3. [301] = user 01; [332] = user 32. To delete a user code, press [2ND] and then [Enter]
[201] to [232]	Remote Control Assignment [201] = remote control 01; [232] = remote control 32 Press [Enter]. After the confirmation beep, press and hold any button on the remote until you hear two beeps. To delete a remote control, press [2ND] followed by [Enter].
[401] to [432]	Remote Control Button Options   [401] = remote control 01; [432] = remote control 32   Options [1] to [3]: See Table below   Option [4]: Enable button  for PGM activation (see section [011])   Option [5]: Enable button  for PGM activation (see section [012])   Option [6]: Enable button  for PGM activation (see section [013])   Option [7]: Enable button  for PGM activation (see section [014])   Option [8]: Enable button  for PGM activation (see section [014])   Option [8]: Enable button  for PGM activation (see section [014])
[011] to [014]	PGM Output Activation [011] = Remote Button [012] = Remote Button [013] = Remote Button [014] = Remote Button Option [1]: Activate PGM 1 output (Default ON in section [011]) Option [2]: Activate PGM 2 output (Default ON in section [012]) Option [3]: Activate PGM 3 output (Default ON in section [013]) Option [4]: Activate PGM 4 output (Default ON in section [014]) Refer to section [401] to [432]
[021] to [024]	PGM Latch/Delay[021] = PGM1; [024] = PGM 4Option [0]: LatchedOption [5]: 40 secondsOption [1]: 1 secondOption [6]: 60 secondsOption [2]: 5 seconds (default)Option [7]: 2 minutesOption [3]: 10 secondsOption [8]: 4 minutesOption [4]: 20 secondsOption [8]: 4 minutes
[001]	Code Length   Option [1]: ON = 6-digit access code length (default)   OFF = 4-digit access code length   Panic Alarm Option [2]: ON = Panic Alarm toggles PGM and panic alarm. (Default)   OFF = Panic Alarm toggles the PGM
[002]	PGM Output on Panic Option [0]: No PGM output on panic alarm Option [1]: Toggle PGM 1 on panic alarm Option [2]: Toggle PGM 2 on panic alarm Option [3]: Toggle PGM 3 on panic alarm (default) Option [4]: Toggle PGM 4 on panic alarm
[003]	RF Lockout on Panic Option [0]: No RF signal lockout on panic alarm (default) Option [1]: 30-second RF signal lockout on panic alarm Option [2]: 60-second RF signal lockout on panic alarm Option [3]: 90-second RF signal lockout on panic alarm Option [4]: 120-second RF signal lockout on panic alarm

# Stand Alone Use

The RTX3 can be used as a Stand Alone module. The programming sections are the same as when used with an Esprit with a few exceptions. In Stand Alone mode, section [001], option [1] and option [2] will not affect system use. Panic alarms can only be used to toggle PGMs on the RTX3 in Stand Alone mode. Sections [301] to [332] do not have to be programmed.

**NOTE:** To program wireless transmitters in Stand Alone mode, you must use a PX8 in conjunction with the RTX3. Refer to the PX8 Instructions for more information.

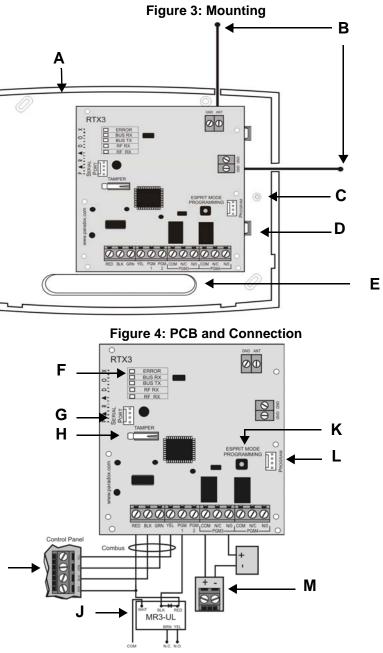
Table 5: Remote Control Arming Options [401] to [432], Options [1] to [3]							
Option [1]	Option [2]	Option [3]	Definition				
Off	Off	Off	No Arm or Disarm				
On	Off	Off	Button 🗬 = Regular Arm* (Default)				
Off	On	Off	Button 🚹 = Regular Arm*				
On	On	Off	Button 🖨 = Regular Arm* Button 🎦 = Regular Arm*				
Off	Off	On	Button 🗬 = Force Arm*				
On	Off	On	Button = Force Arm* Button = Stay Arm*				
Off	On	On	Button 🖨 = Regular Arm* Button 🎦 = Stay Arm*				
On	On	On	Button 🖨 = Stay Arm*				

\* Buttons used to arm are also used to disarm the system

#### Installation Information

#### **Table 6: Mounting and Connection**

			Figure	3: Mounting					
А	Back Cover								
В	Antennas: The vertical antenna is the default antenna. Connect the horizontal antenna to improve reception and range.								
С	PCB Moun	ting Holes	(x 9)						
D	Mounting c	lip (x 4)							
E	Wiring Slot								
			Figure 4: PC	B and Connection					
	ERROR (R BUS RX (G BUS TX (R RF RX(Gre RF TX(Yell	Greén): F ed): F een): F ow): F	Flashes when re Flashes when tr Flashes when re Flashes when tr	lem with the module. eceiving information from the panel. ansmitting information to the panel. eceiving wireless information. ansmitting wireless information.					
F	BUS RX OFF	BUS TX OFF	Error ON	I Spectra SP Series only): Condition Combus is shorted / No clock / No data / Fail to Com					
	OFF	ON OFF	ON ON	Wrong data / Invalid Combus address (Too many modules) Future Use	I –				
	ON 	ON	ON Flash	Combus lines reversed Combus power is too low					
G	upgrade th	e firmware	).	oad's In-Field Firmware Upgrade Application to e the PX8 installation manual for additional information.	Tashnia				
Н	Anti-Tampe	er Switch	· ·		Technica				
	Control par	nel Combu	is connection		Power Inpu				
I	NOTE: If yo	ou are usir	ng the RTX3 as	Frequency:					
	power supp	Sensitivity:							
J	If the curre	nt draw ex	ceeds 150mA c relav's RED co	on PGM1 or PGM2, use a relay. Connect the RTX3's onnector, and the PGM connector (PGM1 or PGM2) to	Current con				
U	the relay's	Dimensions							
	Esprit Prog	ramming:	Press to enter p	programming mode in Esprit mode.	Operating to				
к	System Ro	cot: Proce	and hold the Pr	ogramming button for 5 seconds, the BUS RX LED will	PGM output				
rx	flash. Relea	ase the bu	tton and press i	t again while the LED flashes to reset the module to its	Range				
	default valu	Other:							
L	and Stand	Alone mod	de.	pad to the "Program" connector to program in Esprit	Approvals				
Μ	Connect PGM3 and PGM4 to external power supplies if you need additional power. 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.								



# ical Specifications

i o o nine a o po o nie a	
Power Input Voltage:	12Vdc
Frequency:	433MHz or 868MHz
Sensitivity:	-120 dBm
Current consumption:	50 mA
Dimensions (no antenna):	15cm x 16cm x 3cm (6in x 6.5in x 1.1in)
Operating temperature:	0°C to 49°C (32°F to 120°F)
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 Instructions
Other:	Di-pole antenna; Error Correction Algorithm
Approvals	For the latest information on product approvals, visit our Web site at paradox.com

lange	
Other:	
pprovals	

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FCC ID: KDYMG-RTX3 CANADA: 2438A-MGRTX3 This device complies with part 15 of the FCC rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference and (2) This device must accept any interference received, including interference that may cause undesired operation.