RTCM corrections into a ProMark3

Send setup commands to the Base receiver using Evaluate software (available from ftp://ftp.thalesnavigation.com Look in the Software folder)

Connect the Base receiver to the PC using TN cable 700461, going from Port A of the receiver to the PC COM Port.

Launch Evaluate and connect to the receiver.

When connection is complete, click the OK button (a long, horizontal button at the top of the connection dialog box)

Initialization complete				
	<u>OK</u>			
9	\$PASHQ,PRT*21 <cr><lf></lf></cr>			
Ţ	\$PASHR,PRT,A,5*56			
	\$PASHQ,RID*28 <cr><lf></lf></cr>			
Ţ	\$PASHR,RID,UZ,30,ZG00,BUE-MFT3JKIY,0A13*4A			
	~			
<				

Click the icon that looks like a blue monitor screen.



In the top left of the screen is a grey button between "MENU" and "TYPE". Click the button to toggle to "Type". This will enable you to enter PASH commands in the dialog box.



Send these commands to set up the Base receiver

tell receiver to be an RTCM base outputting corrections on Port B \$PASHS,RTC,BAS,B set base position in ddmm.mmmm format \$PASHS,POS,xxxx.xxxx,N,xxxxx.xxxx,W,xxx.xxxx set base site name as 0001 \$PASHS,RTC,STI,0001 turn RTC/CTS off \$PASHS,CTS,B,OFF set Port B to 4800 baud \$PASHS,SPD,B,4 turn Type 6 messages off \$PASHS,RTC,TYP,6,OFF turn on Type 1 messages to output at 1 second interval \$PASHS,RTC,TYP,1,1 save settings \$PASHS,SAV,Y

📱 Ashtech Evaluate - GPS Receiver type: uZ					
GPS Almanac View Window Help					
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🖳 GPS Receiver Terminal					
8 Menu Type \$PASHS,SAV,M Send * Create *.gps					
SPASHS,BTC,BAS,B*22 <cr><lf></lf></cr>					
J HoinACK					
SPASHRACK*3D					
PASHS.POS.3721.0000.N.12165.0000.W.32.84*19 <cr><lf></lf></cr>					
J I-binACK					
PASHRACK*3D					
PASHS,RTC,STI,0001*7F <cr><lf></lf></cr>					
∠ Hein/ACK					
PASHRACK'3D					
PASHS,CTS,B,OFF*3C <cr><lf></lf></cr>					
- JebinACK					
2 \$PASHR,ACK*3D					
SPASHS.SPD.B.4*44 <cr><lf></lf></cr>					
→ PhinACK					
SPASHHALKSU					
SPASHS.RTC.TYP.6.DFF*38KER×CF>					
John ALK					
STASHALKSU					
SPASHS,HTU,TYP,TP4TCBXCF>					
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P PROTECTION CONTRACTOR OF D					
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S.	2				
For Help, press F1	M5 9600 D:m A:m H:km/h V:m/s				

Disconnect from Evaluate software

Connect PDL Base radio to PC using Pac Crest Cable A00470, and launch the PDLConfig Program Click LOAD to load program settings

📴 PdlConf - Dealer					
	Identification Radio Link Serial Inte	rface Frequencies Memory Map			
PACIFIC CREST	 Model Information 				
	Model:	Frequency Range:			
Help	Firmware Revision:	Power:			
Load	Modem ID:	Channel Bandwidth:			
PrograConnect to the modem and read its settings Class					
	Owner:				
Print					
Exit	Undo Changes	Factory Defaults			

On Radio tab: Set Radio Link to 9600 Modulation: GMSK Digisquelch: Low Set Channel to your frequency On Serial tab: Set baud rate to 4800 Mode: Transparent w/EOT Timeout EOT Count:10 Click PROGRAM to send these settings to the radio Disconnect cable from PC

Connect RFM96 Rover radio to the PC using Pac Crest cable A00469, and launch the PCPDLConfig Program Follow same procedure as Base, except change the digisquelch to High

Take everything outside

Power on the Base receiver and verify that it is tracking 5+ satellites Connect Port B of the Base receiver to the PDL Base radio using Pac Crest cable A00630 Connect the radio antenna to the PDL Base radio Provide power to the radio and turn it on. Select the appropriate channel. Is the power light on (solid red) and the TX light blinking a nice steady pulse?

Connect the radio antenna to the RFM rover radio using Pac Crest cable A00911 Provide power to the radio Is the PWR light on(solid red) and the RX light blinking a nice steady pulse? Connect the RFM96 radio to the dB9 port of the PM3 IO device. This is cable PN A00469.

Power on the PM3

Open Utilities from the desktop.

Open the GPS Status utility and verify that the receiver is tracking 5+ satellites. Close this screen and return to the main Utilities screen.

Open the DGPSConfig utility

Select the button for Other RTCM Corrections

Click on Open Port

Select 4800 baud

Click OK

DO NOT go to the Status screen. This appears to only be valid for beacon correction status Instead, click on the OK button at the top right of the screen.

You should see another screen that says that you have an RTCM correction.

Click OK and return to the main Utilities screen.

Open GPS Status again.

You should see "GPS Differential" in the bottom left of the screen.