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Novatel GPS Configuration

Introduction

1. Complete the installation and configuration procedure for the Pronto4 Novatel GPS unit per product documentation.
2. Start up the Pronto4 unit according to existing system procedures and documentation.
3. Start up the Operator Control Unit (OCU) according to existing system procedures and documentation.
4. On the OCU, in Shepherd, under the "Assets" tab and "Asset View" sub-tab, select the robot asset, and click the "VNC" button. In the "Standard VNC Authentication" pop-up window, click "OK". This will open a virtual connection to the Pronto4 computer. All subsequent steps refer to the virtual Pronto4 computer and NOT to the OCU.
5. If djEtherMap appears on the MS Windows taskbar, close it as follows:
   a. Right-click on the djEtherMap taskbar button.
   b. Select "Close".
6. Restore djLoader (click on the djLoader taskbar button).
7. Along the right-hand side, under the "Device" section and "Quit" button, ensure ONLY "GPS3" is checked.
8. On the "GPS3" tab, ensure the following settings:
   a. In the upper-left corner, verify the "Antenna Status" is NOT "1 GPS Fix valid". If it is 1 GPS Fix at this point, then firmware needs to be changed.
   b. In the upper-center area, verify either data is streaming in the "GPS3 Comms" area or "COM1 Open" is displayed.
   c. In the upper-right corner, below the "DTR" button, verify the COM value is "1".
9. In the upper-right corner, click the "Close" button. Verify data is NOT streaming in the "GPS3 Comms" terminal area.
10. In the center-right area, immediately above the "Save Config" button, change "57600,n,8,1" to "9600,n,8,1".
11. In the upper-right corner, click the "Open" button. Verify data is streaming in the "GPS3 Comms" terminal area.
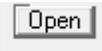12. In the center-bottom area, select the "SET SERIAL" from the "Adjust" drop-down list.
13. To the right of the "Adjust" drop-down list, click the ">>Send" button.

14. In the center-right area, click the "Save Config" button.

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15. In the upper-right area, click the "Close" button. Verify data is NOT streaming in the "GPS3 Comms" terminal area.

16. In the center-right area, immediately above the "Save Config" button, change "9600,n,8,1" to "57600,n,8,1".
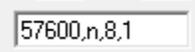
17. In the upper-right corner, click the "Open" button. Verify data is streaming in the "GPS3 Comms" terminal area.

18. In the center-bottom area, select the "WAAS on" from the "Adjust" drop-down list.

19. To the right of the "Adjust" drop-down list, click the ">>Send" button.

20. In the center-bottom area, select the "auto" from the "Adjust" drop-down list.

21. To the right of the "Adjust" drop-down list, click the ">>Send" button.
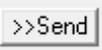
22. Verify data is streaming in the "GPS3 Comms" terminal area for several minutes (e.g., 10-15 minutes).

23. In the upper-left corner, verify the "Antenna Status" is "9 WAAS".

24. In the center-bottom area, select either the "ASI Configuration" or the "MLT Configuration" from the "Adjust" drop-down list.
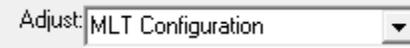
25. To the right of the "Adjust" drop-down list, click the ">>Send" button.
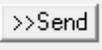
26. In the center-right area, click the "Save Config" button.

27. Cycle power, as follows:
    a. Disconnect the GPS power cable.
    b. Connect the power cable.

28. Verify it does NOT take more than 60 seconds for data to start streaming in the "GPS3 Comms" terminal area.

29. Verify data streams in the "GPS3 Comms" terminal area for at least 30 minutes.

30. Verify the "Antenna Status" remains "9 WAAS" during the 30 minutes 'burn in'.

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