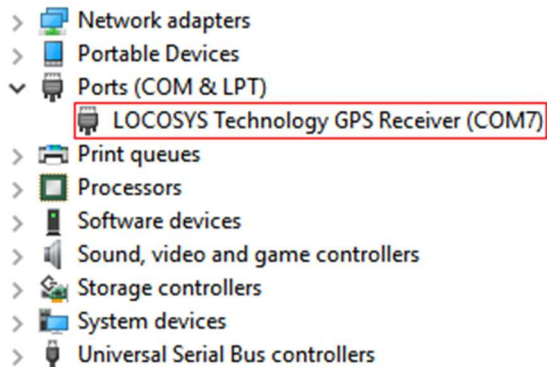


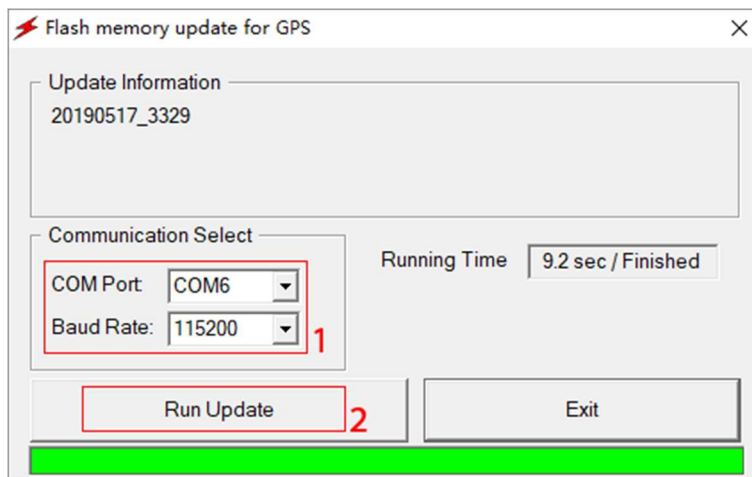
V-800 Firmware Updating Guide for the WNRO

The following steps take Windows10 as an example.

1. Connect V-800 to your computer.
2. View the COM port of the V-800 (COM6 shown).



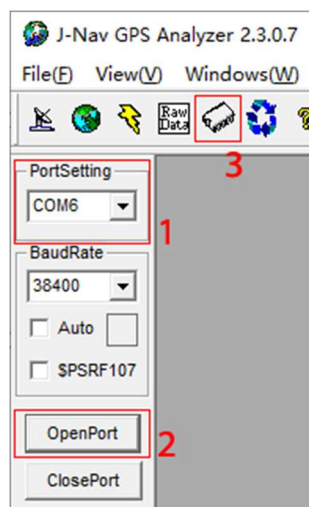
3. Run "FW_WNRO". Select the COM Port and click "Run Update".
After about ten seconds, the progress bar below turns green to indicate the end of the first part of updating.



4. Run "J-Nav GPS Analyzer".



- (1) Select the COM PORT where the device is located, click "OpenPort", and then click the icon in the upper right corner.



- (2) Click "Read Information". **All parameter settings must be consistent as shown in Box 2.**

Click "Select" .and finally click "Execute".

The screenshot shows the 'CommandSetting' dialog box with the following elements and annotations:

- Read Information** button: Annotated with a red box and the number **1**.
- User Define Message** section:
 - Message text: `$PSRF109,NMEA38400,LED 4800,GGA1,LL0,GSA1,GSV1,RMC1,VTG:`
 - CR** and **LF** checkboxes: Both are checked.
 - Execute** button: Annotated with a red box and the number **4**.
 - Message text: `$PSRF109,NMEA38400,LED 4800,GGA1,LL0,GSA1,GSV1,RMC1,VTG1,USER0*72` (Annotated with a red box and the number **4**).
- < FLASH Write >** section:
 - Header: `$PSRF201, $PSRF109`
 - Com A** settings:
 - Protocol: **NMEA**
 - BaudRate: **38400**
 - Product Select** section:
 - Standard** (selected)
 - MT3339
 - Com B** settings:
 - Protocol: **Other**
 - BaudRate: **LED**
 - NMEA** section:
 - GGA: **1**
 - LL: **0**
 - GSA: **1**
 - GSV: **1**
 - RMC: **1**
 - VTG: **1**
 - USER: **0**
 - Select** button: Annotated with a red box and the number **3**.
 - Select Cancel** button.
- \$PSRF202, \$PSRF110** section:
 - Message text: `$PSRF110,1,10,10,2,1,1,0,0,0,10,21`
 - Select** button.
 - LED indicator** section:
 - Default** (1s,5:5,On) is selected.
 - User define** is also present.
 - LED indicator control** section:
 - Not Fix interval**: 1000 ms
 - Fix interval**: 1000 ms
 - Not Fix LED On**: 1000 ms
 - Fix LED On**: 200 ms
 - PPS** section:
 - Option**: **Disable PPS**
 - PPS Pluse(High)**: 1ms

- (3) **All parameter settings must be consistent as shown in Box 1.**

Click "Select" and finally click "Execute".

CommandSetting

Read Information Write Information

User Define Message

\$PSRF 109,NMEA38400,LED 4800,GGA1,GLL0,GSA1,GSV1,RMC1,VTG: ✓ CR ✓ LF Execute

\$PSRF 109,NMEA38400,LED 4800,GGA1,GLL0,GSA1,GSV1,RMC1,VTG1,USER0*72 3

< FLASH Write >

\$PSRF 201, \$PSRF 109

Com A Protocol NMEA BaudRate 38400

Product Select Standard MT3339

Com B Protocol Other BaudRate LED

NMEA GGA 1 GLL 0 GSA 1 GSV 1 RMC 1 VTG 1 USER 0

Select Select Cancel

\$PSRF 202, \$PSRF 110

\$PSRF 110,1,10,10,2,1,1,0,0,0,10,21 Select 2

LED indicator LED indicator control

Default (1s,5:On) Not Fix interval 1000 ms Fix interval 1000 ms

User define Not Fix LED On 1000 ms Fix LED On 200 ms 1

PPS Option Disable PPS PPS Pluse(High) 1ms

- (4) Click "Factory" and then click "Execute".

Fix Time

00 : 19

Message Sel

Factory 1

Cold

Warm

Hot

Execute 2

5. Unplug V-800 to complete the firmware updating.