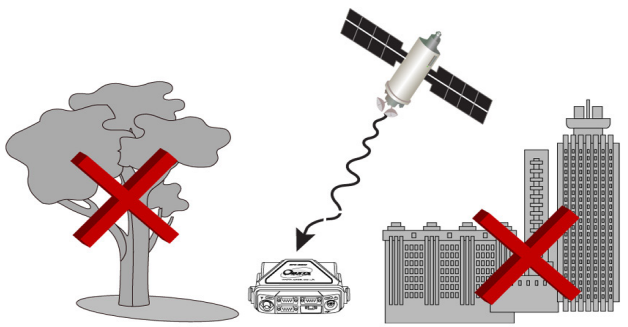
Web: www.oxts.com
Email: info@oxts.com
Phone: +44 (0)1869 814 253

GPS-Base Quick Start Guide

STEP 1

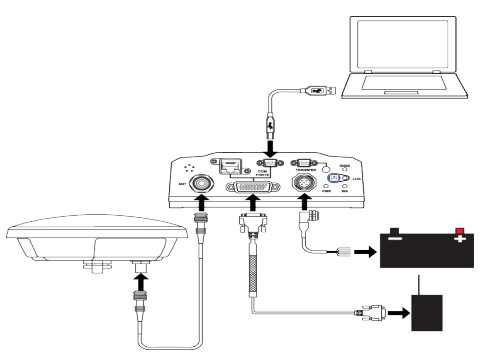
Choose a Suitable Site



Find a site that is in open-sky, away from trees or buildings that can reflect or block GNSS signals.

STEP 2

Connecting GPS-Base System



Mount the GNSS Antenna on the top of the tripod, or to a secure pole. The GNSS Antenna should not be able to move even slightly. Connect the GNSS Antenna to the GPS-Base unit using the 15m TNC-TNC cable provided.

Connect the GPS-Base unit to the Radio Modem Aerial and mount the aerial at least 2m away from the GNSS Antenna.

Do not connect the GPS-Base to the computer until the software is installed.

STEP 3

Install Software

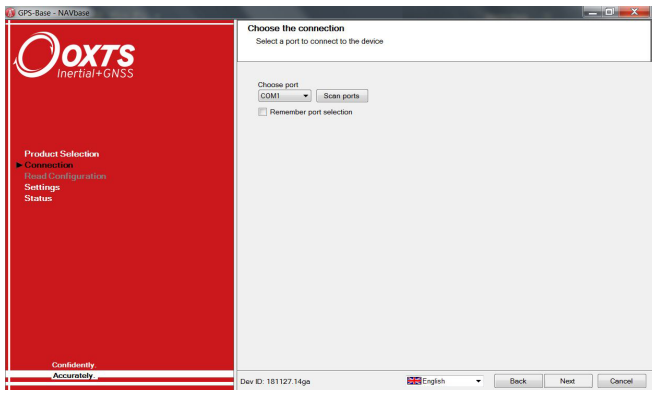
Insert the USB stick and double-click on the program: Navsetup.exe
Please follow the instructions given by the installer.

STEP 4

Run NAVbase software

Connect the GPS-Base to a PC USB port and connect a 12V dc power supply to turn on the power to the GPS-Base.

NAVbase can be started by clicking the Start button and typing NAVbase, or by clicking Start >All Programs > OxTS and selecting NAVbase. Alternatively NAVbase can be accessed by the NAVstart menu. The initial launch screen is shown.

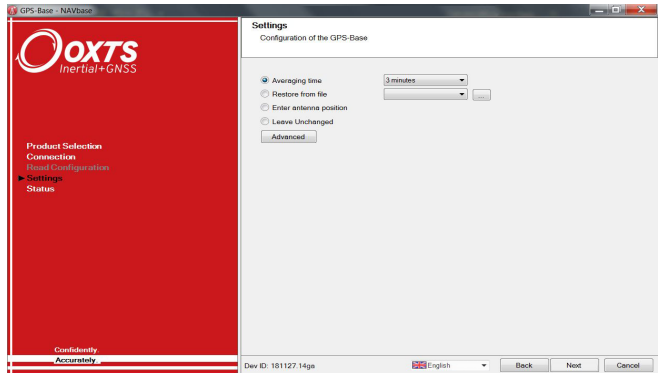


The GPS-Base connects using USB. Normally the driver will install three COM ports for the GPS-Base: COM5, COM6 and COM7. If these ports are already taken by other software drivers then other ports will be used and it will be necessary to “search” until the correct port is found.

STEP 5

Average the position

On the next page choose to average the position for 3 minutes. If you have saved a location for the GPS-Base or if you know the exact location of the GNSS Antenna then you can enter it on this page.



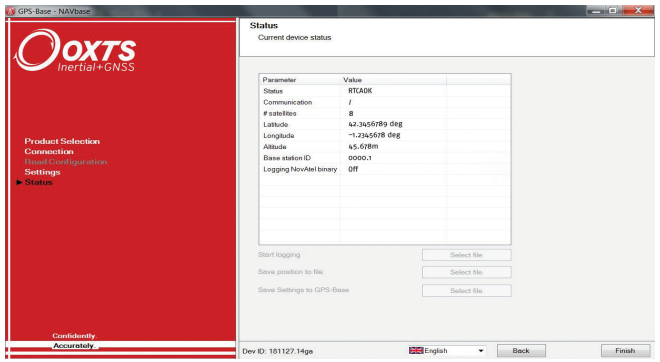
Click Next to move to the next step.

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GPS-Base Quick Start Guide

STEP 6

Monitor the Status



The Status page will show the progress of the averaging. After the average is complete the software will show “RTCMV3 OK”.

The GPS-Base will now be transmitting corrections on its radio link.

STEP 7

Remote Radio Modem

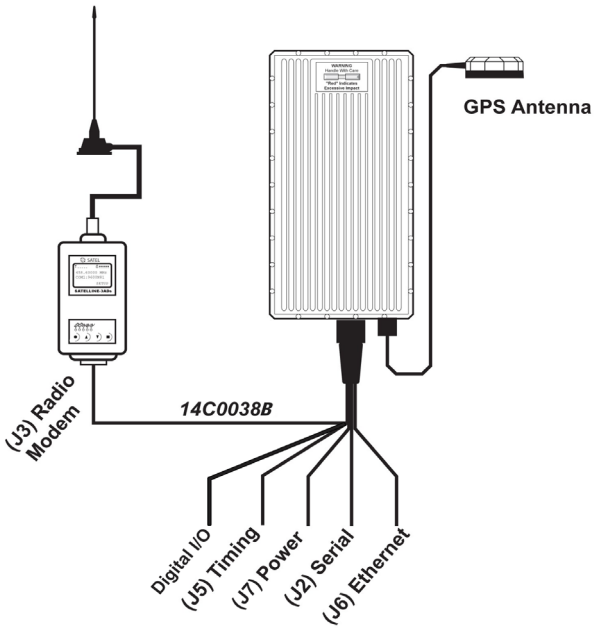
Connect the Radio Modem Aerial to the Radio Modem. Connect the appropriate cable to the Radio Modem (for example the 14C0038A connector J3 for the RT).

To make sure that the Radio Modem is receiving corrections from the GPS-Base look at the LEDs. The Table below gives a description for some of the LEDs on the SATEL radio modem.

TD	RD	CD	Description
Off	Off	Off	Idle
Off	Off	Orange	Noise or other user on this Radio frequency
Off	Green	Green	Receiving a packet

The Remote Radio Modem should receive a packet (RD and CD both green) once per second, with a slightly longer packet once every 10 seconds. This may be less frequent if the “Limit output corrections message rate” option is selected.

RT Connection



The connection of the Radio Modem to the RT3000 is shown above. RT3000 User Cables have J3 as the Radio Modem connection; check in the RT User manual if you are unsure.

Support:

For further information, please check the GPS-Base Manual

If you encounter any issues during installation, please contact our OxTS support team via the website.

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