



GPS-Base

Portable GNSS base station

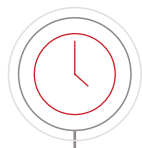
The GPS-Base is a portable GNSS base station that provides RTK corrections to one or more differential enabled GNSS receivers via radio modem. Correction data can also be logged to a PC when connected.

Key features

- / 45 cm DGPS corrections
- / 20 cm L1 corrections
- / 1 cm L2 corrections
- / RTCA, RTCA2 and RTCM and RTCMv3 correction formats
- / Various radio modem options
- / Error correcting transmission
- / Save/Restore antenna position
- / High performance, multi-path rejecting GNSS antenna
- / Easy to power from a variety of sources
- / Complete kit with carry case



Why choose the GPS-Base?



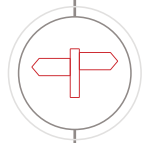
Quick to install

- / Simply connect the GNSS antenna and the radio modem aerial; then turn on. User-friendly software on the PC is used to configure the GPS-Base so the current location can be saved and restored, or a new location can be set.



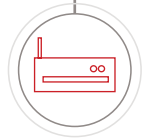
Flexible power

- / Accepts 9 to 36 V dc which can be supplied by a battery, a vehicle's auxiliary power or a mains power supply.



Multipath rejection

- / Uses pulse-aperture correlator technology to minimise the effects of multipath. The high-performance antenna includes a ground-plane to minimise ground surface multi-path and reflections.



Radio modem

- / Advanced error correcting codes are used across three different radio options to provide reliable transmission over a 2 km range in an open environment. Since some packets can be dropped or have errors, the radio modem can be used up to a range of 5 km in open environments.

Applications

- / Useful in installations that require RTK corrections

Components included

- / GPS-Base unit
- / 15 m TNC-TNC GNSS antenna cable
- / Power cable
- / Radio modem cable
- / PC-USB cable
- / Transit case
- / Vexxis GNSS-802 antenna
- / Professional tripod

Additional components if bought with radios

- / Radio modem (x 2)
- / 3 m Magnetic antenna with TNC connector (x 2)

Radio modem options

SATEL	403–473 MHz band, up to 1 W, typically 5 km. Licence free bands available for many European countries. Radio will typically cover 8 bands with 25 kHz channel spacing.
SATEL	869 MHz band, up to 500 mW, typically 2 km. Licence free across most of European Union.
Freewave	900 MHz band, up to 1 W, typically >10 km. Licence free in USA, Brazil, Canada.

Specifications

Power	9-36 V dc, 2 W
Operating Temperature	-40 °C to 75 °C
Corrections	RTCA (Differential, L1, L2), RTCA2, RTCMv3
Output Frequency	1 Hz
Format	RS232

For further information please contact
OxTS or your nearest channel partner.



Oxford Technical Solutions Ltd
United Kingdom
sales@oxts.com

The inertial experts since 1998
www.oxts.com