



RT-Base S

Self-contained IP65 rated base station for 1 cm accuracy

The RT-Base S is a self-contained, weatherproof and portable GNSS base station. It is designed to be quick and easy to set up, and transmits corrections to local receivers via radio modem or (optionally) via Wi-Fi.

Key Features

- / IP65 rated protection
- / GPS and GLONASS compatible
- / Up to 1 cm position accuracy
- / Internal battery provides a minimum of 24 hours of continuous operation
- / Store 10 positions in memory for quick retrieval during set-up
- / Create RINEX files from internally logged binary data
- / Broadcast corrections via Wi-Fi (optional)
- / Large number of DGNSS correction formats to choose from
- / Multipath rejecting GNSS antenna
- / Integral radio modem
- / Easy disconnection of battery pack in preparation for air travel
- / Quick and easy set up (~ 5 mins)
- / Adjustable averaging time
- / Ethernet output



Why choose the RT-Base S?



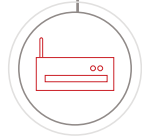
Set up and forget

/ The RT-Base S can be set up anywhere in minutes, then left for hours while engineers are able to perform tests elsewhere. The high-performance internal battery powers the RT-Base S for 24 hours – even in temperatures as low as -10 °C. The IP65 rated case protects the RT-Base S from wet weather conditions.



Fixed position

/ The RT-Base S is a flexible solution that can average its position, in an unknown location, over a selectable period of time. Alternatively, it can be programmed with precise coordinates when placed at a surveyed location. The RT-Base S can store up to 10 locations which enables quick and easy set up in regular locations.



Avoids surprises

/ The RT-Base S transmits corrections and logs binary data to its internal memory which can be converted into RINEX files for post-processing at any time. This flexibility means data can simply be corrected and there is no need to repeat tests.

Applications

- / Ideal for use in automotive testing applications where real-time RTK integer accuracy is required
- / Works seamlessly with OxTS devices to provide up to 1 cm RTK integer accuracy
- / Broadcast corrections can be used with other manufacturers' equipment thanks to number of correction formats

Specifications

Power rating	12 V dc, 2.5 A maximum	Charge temperature	-20° C to 40° C
Mains power	110–240 V ac, 50–60 Hz, 3 A maximum	Environment	IP65 when lid is secured shut
Battery	2 × 12 V, 5 Ah, lead-acid (connected in parallel)	Output format	RTCA, RTCA2, RTCM, RTCMv3, CMR, CMR+
Charge time	≈ 6 hours	Output interface	RS232 serial, Ethernet
Operating time	30 hours typical (>24 hours at -10 °C)	Case dimensions	474 mm × 415 mm × 149 mm (external)
Operating temperature	-10 °C to 50 °C	Mass	11.9 kg (inc. all accessories)

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



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