

RTK BASE Portable - Portable Base Station

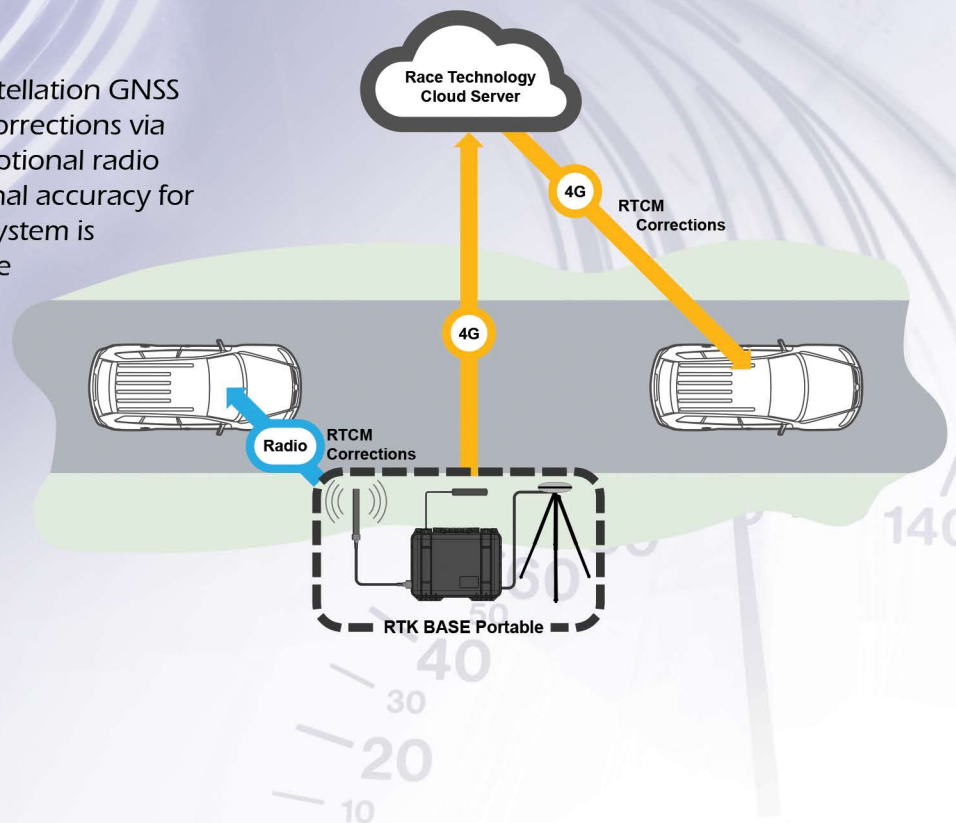


- RTCM corrections for RTK 2-3cm positional accuracy
- Correction uplink to server for modem-free operation
- Quick and easy setup
- IP67 sealed for use in any weather
- LCD for comprehensive status information
- Compatible with SPEEDBOX and SPEEDBOX-INS products

The RTK BASE Portable is a multi-constellation GNSS receiver capable of providing RTCM corrections via either a 4G LTE radio modem or via optional radio modem, to give 2cm absolute positional accuracy for a variety of testing applications. The system is designed to work with any of the Race Technology 2cm capable systems, or with any other GNSS receivers which require RTCM V3.x corrections.

Corrections are transmitted after just a few minutes, required to obtain the local position. If placed within 5m of the last time it was used, the previous position will be used again. So consistent results can be obtained across different test sessions. Full status information for the connection and satellite information is shown on the LCD.

The RTK BASE Portable is a completely stand alone correction source which doesn't require a fixed installation and has a very fast startup time.



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Using the RTK BASE Portable with the RTK CONNECT and SPEEDBOX-INS or CATS-INS gives all the benefit of the proven speed and attitude accuracy of the SPEEDBOX-INS, with the addition of positional accuracy upgraded from the 1m level to the 2-3cm level. This brings many more applications within the remit of the SPEEDBOX-INS / CATS system, including:

- Driving robot input
- Lane deviation testing
- Target tracking
- Driver assistance development and end-of-line testing (ADAS)
- Driverless vehicle research and development



Correction format	RTCM v3.x
Update rate	1Hz
	RS232 @ 38400 baud. RTCM v3.x
Serial (Modem)	GPS #1074, #1077 GLONASS #1084, #1087, #1230 Galileo #1094, #1097 BeiDou #1124, #1127
USB	Configuration / reflash
LCD	Multi screen information to show: Screen 1. Connection status, correction status Screen 2. GPS and Galileo information Screen 3. GLONASS and BeiDou information Screen 4. Current position Screen 5. RS232 baud rate and corrections Screen 6. Error messages
SIM card format	Micro-SIM (3FF)
Voltage	12V nominal input, minimum of 10V, maximum of 15V
Power consumption	3W, built in battery, 10 hour battery life
Weight	TBD
Dimensions	409mm x 331mm x 175mm
Antenna (main and Aux)	4G LTE compatible
Antenna (GPS)	Dual frequency multi-constellation pinwheel type.

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