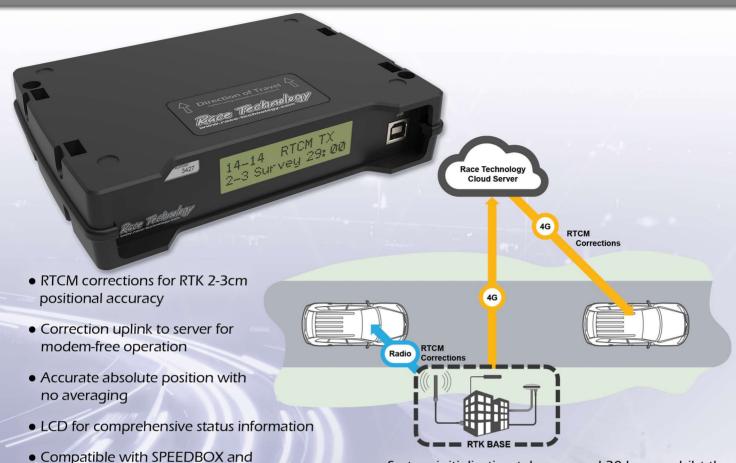
RTK BASE - Compact Installed Base Station



The RTK BASE 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.

SPEEDBOX-INS products

System initialisation takes around 30 hours whilst the current position is recorded and the correct position calculated using a remote service. This is not position averaging and so will give high accurate absolute position. The system can be configured to resurvey periodically to account for ground movement. Correction information is only supplied to the server when required by an external unit, so data usage is kept very low. Full status information for the connection and satellite information is shown on the LCD.



The RTK BASE is designed for permanent installation and operation. Where portable operation is required look at the RTK BASE Portable.



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Using the RTK BASE with the RT 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
Modem - Serial	RS232 @ 38400 baud. RTCM v3.x 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
Weight	540g
Dimensions	163mm x 118mm x 34mm
Antenna (Main and Aux)	4G LTE compatible
Antenna (GPS)	Dual frequency multi-constellation pinwheel type.

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