RT CONNECT - RTCM correction modem

- RTCM corrections for RTK 2-3cm position accuracy

- Modem output for multiple receivers

- LCD for comprehensive status information

- Compatible with SPEEDBOX and SPEEDBOX-INS products

- Optional cloud based data logging

The RT CONNECT is a 4G LTE radio modem which provides RTCM correction information to either Race Technology SPEEDBOX products or to other RTK enabled GNSS receivers which require RTCM format corrections to provide 2cm positioning.

Corrections can be sourced either from a Race Technology base station, or from a subscription. Full status information for the connection and satellite information is shown on the LCD.

Using the RT CONNECT with the 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)
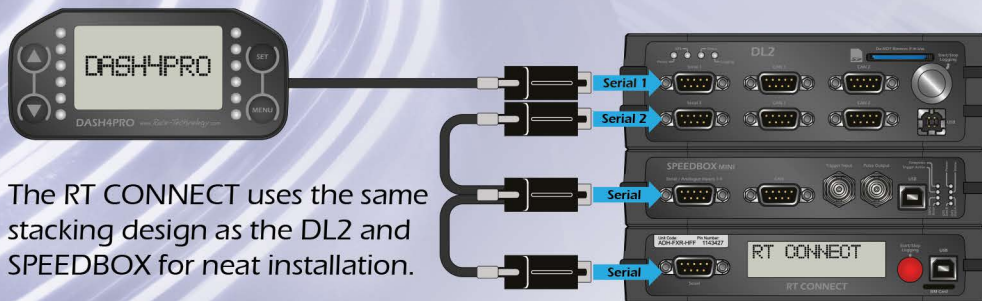
- Driverless vehicle research and development

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RT CONNECT - RTCM correction modem

Correction format	RTCM v3.x
Update rate	1Hz
Serial I/O	2 x RS232 ports
Serial 1 (Front)	RS232 @ 115200 or 460800 baud Outputs RT msg3 @ 0.5 or 1 Hz
Serial 2 (Rear)	RS232 @ 38400 baud. Output RT msg109,3, or 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, turn around time, correction age Screen 2. RS232 port 1 rate and messages rx and tx Screen 3. 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

Cloud Logging Option

With the cloud logging option, the RT CONNECT can be used to connect to the RT Cloud service to provide remote data logging and telemetry, with all data available to view from anywhere with a suitable internet connection.

The RT CONNECT uses the same stacking design as the DL2 and SPEEDBOX for neat installation.

Race Technology Ltd (UK)

16 King Street, Eastwood, Nottingham, NG16 3DA

Tel: +44 (0)1773 537620
Fax: +44 (0)1773 537621
Email: sales@race-technology.com

CfA®
Centre for Assessment
ISO 9001
18/2789

UKAS
MANAGEMENT
SYSTEMS
0120

Race Technology
www.race-technology.com