Racelogic's LabSat now enables record and replay of analogue signals alongside GPS

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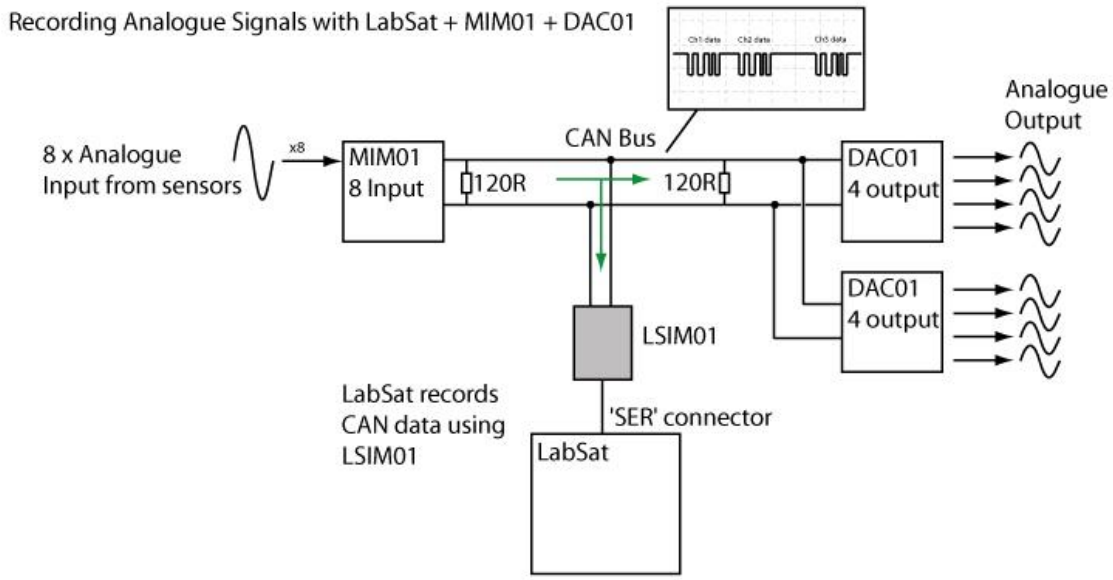
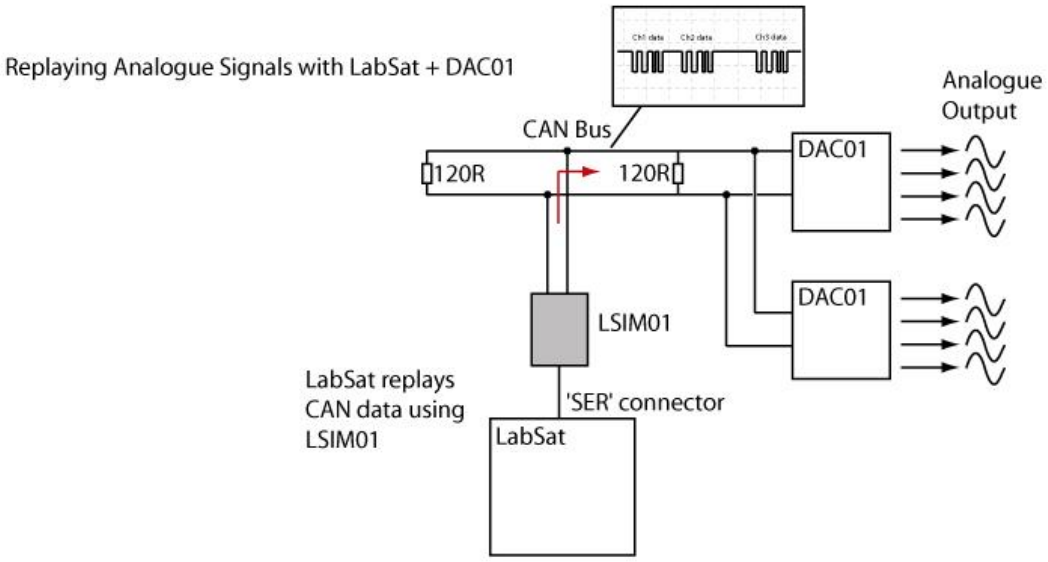
Racelogic have announced that their LabSat GPS simulator now has the ability to record and replay analogue signals too. This is good news for navigation system and inertial integration developers, as it's now possible to test synchronised data from external sources alongside GPS.

The feature enables the simultaneous recording and replay of analogue data from multiple dead reckoning sensors, synchronised with GPS RF data from the LabSat simulator. Typical applications include the recording and playback of the analogue output from yaw-rate and acceleration sensors simultaneously with the GPS satellite RF.

How does it work? "The output from up to eight analogue sensors is first converted to CAN Bus data, at 500k bits per second using a Racelogic Mini Input Module" says Chris Smith, Design Director at Racelogic. "The Racelogic CAN Interface Module then converts this data into a digital waveform, which is incorporated into the GPS data, and recorded at the same time."



"To accurately replay the analogue data simultaneously with the GPS RF data, the CAN Interface Module converts the digital information back into CAN data, which is replayed synchronised with the GPS RF data. The CAN data is converted back to analogue data using a Racelogic Analogue Output Module."



Stephen Jenkins, LabSat product manager, added: "Using LabSat to record analogue signals simultaneously with GPS satellite RF data provides an ideal solution for the development and testing of the multi-sensor in vehicle navigation systems used by many leading navigation and automotive OEM's today. This includes GPS navigation coordinated with inertial navigation and dead reckoning sensors. Developers should find that this feature enables them to test GPS + analogue data more efficiently and effectively than before"

Racelogic design and manufacture innovative electronic systems for the automotive and GPS industries. Based in the UK, they have developed GPS data-loggers, Video-overlay systems, and GPS Simulators since 1992.

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