

Wheel Speed Sensor Output Card

Concurrent Real-Time's FPGA-based Wheel Speed Sensor (WSS) Simulation card is ideal for use in high-performance hardware-in-the-loop (HIL) simulation and test applications. The WSS output card is designed for simulating the output of wheel speed sensor signals with high accuracy. Four output channels provide the ability to simulate 4 wheels with independent tooth wheel profiles. The card features a timing resolution of 15 nanoseconds. The WSS output card can autonomously generate TTL pulses based on the sensor tooth profile and the wheel RPM.

The WSS output card is fully supported by Concurrent's RedHawk Linux operating system on iHawk SIMulation Workbench platforms. Multiple cards can be installed in a single system. A Molex LFH-60 connector is mounted on each card for connection to external devices.



More Information:

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Specifications:

OUTPUT CARD

- 4-channel TTL output simulating wheel speed sensor signals
- 66 MHz base frequency
- Programmable tooth wheel profiles for up to 100 teeth per channel
- Angular resolution of 0.01 degrees
- +10,000 RPM to -10,000 RPM with a resolution of 0.001 RPM.

GENERAL

- FPGA-based WSS board
- PCIe x1 form factor, full-height, half-length
- Supports multiple cards per system
- External Connectors: Molex LFH-60
- Power Consumption: ~5 watts

Pin Assignment:

LFH60 pin assignments



Ordering Information:

- CP-PWM-1204
4-channel Wheel Speed Sensor output card
- ICS-SWB-1281
SIMulation Workbench output card license
- CX-LFH60-OUT
Output interface assembly w/6-foot cable

Accessories:

Cable and breakout board

