

CAST 8051 IP Subsystem for CAN FD Transceiver Development Utilized by ON Semiconductor

Woodcliff Lake, NJ — May 28, 2014 — With a reputation for supplying energy-efficient, leading-edge electronics like CAN Bus Transceiver chips for automotive applications, ON Semiconductor Corporation wanted to be early-to-market with the brand new, next-generation CAN Flexible Data Bus. The Brno (Czech Republic) engineers tasked with this faced one fundamental challenge: Where would they find a CAN FD controller to test with?

The solution came in the form of the first-available CAN FD soft IP core recently announced by semiconductor intellectual property provider CAST, Inc. This core—sourced from CAST's partner Fraunhofer IPMS—completely supports the improved data link layer protocol and significant bandwidth increases defined by the CAN with Flexible Data-Rate Specification released by Bosch in April 2012. CAST's IP subsystem integrating the CAN FD core with an efficient 8-bit 8051 microcontroller on a Talos™ FPGA board enabled ON Semiconductor's transceiver testing to begin much sooner than expected.

“Not only did CAST have the CAN FD controller and working subsystem board before anyone else, their long experience with CAN IP and reputation for great support and service made our decision easy, really jumpstarting our early transceiver development project,” said Roman Buzas, application manager for IVN products at ON Semiconductor.

Learn more about ON Semiconductor's existing line of CAN Transceivers and hundreds of other proven, cost- and energy-efficient electronics solutions at <http://www.onsemi.com>.

The CAN 2.0 and FD Controller core, Talos 8051 Reference Design Board, and other development aids are available now. These are part of CAST's royalty-free IP product line that also features microcontrollers and processors, image and video compression, graphics processors, and more. Call CAST at +1 201.391.8300 or visit www.cast-inc.com.

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