

CAST Drives Automotive IP Forward with New AVB/TSN Ethernet and SAE J2716 Sensor Bus Cores plus CAN-FD Time-Stamping

*New IEEE 802.1AS AVB/TSN and SENT/SAE J2716 Cores now available;
CAN/CAN-FD Controller Core now supports AUTOSAR-compliant time-stamping*

WOODCLIFF LAKE, NJ USA — June 13, 2017 — Semiconductor intellectual property provider CAST, Inc. today announced three significant improvements to its automotive IP family:

- A new **IEEE 802.1AS Hardware Protocol Stack Core** works with any eMAC (Ethernet Media Access Controller) to enable easy development of time-aware nodes for standard AVB/TSN (Audio Video Bridging/Time Sensitive Networking) networks. This serves a variety of audio/visual and industrial applications, and is essential for the growing use of Ethernet to connect diverse automotive systems.
- A new, full-featured **SENT/SAE J2716 Controller Core** serves as a transmitter and/or receiver for the Single Edge Nibble Transmission protocol. It complies with the SAE J2716 standard and also the de-facto standard Short PWM Code (SPC) protocol, and can serve as a simpler, lower-cost alternative to the popular LIN bus for connections between automotive sensors and controllers.
- The **CAN 2.0 & CAN FD Bus Controller Core** now supports time-stamping compliant to the [CiA 603 specification](#), which enables efficient hardware time-based synchronization for AUTOSAR (AUTomotive Open System ARchitecture) systems. This adds time-sensitive application support to one of the most field-proven, feature-rich, and transceiver-agnostic FPGA/ASIC CAN controller cores on the market.



“Working with multiple CAN FD customers every month has made us acutely aware of the special needs of automotive system designers,” said Nikos Zervas, chief executive officer for CAST. “These engineers face a growing demand for more sophisticated electronics at all levels in the market, and we believe these additions to our automotive IP line will further help them succeed in the face of rising complexity and diminishing time to market and cost flexibility.”

The CAN Controller and 802.1AS Stack cores are sourced from Fraunhofer IPMS. The SENT/J2716 Controller core was developed by CAST's USA engineering team. All are available now, with royalty-free licensing.

About CAST, Inc.

CAST develops, aggregates, and integrates digital IP cores and subsystems. The company's product line includes low-power, high-value processors, data compression, video and image codecs, peripherals, interfaces, and more; see details at www.cast-inc.com.

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