

## Presenting IP core design solutions

Fraunhofer Institute for Photonic Microsystems IPMS is part of the All About Automation 2021. They present its IP core design solutions including a CAN controller core supporting Classical CAN, CAN FD, and CAN XL.



(Source: Sergey Nivens - Shutterstock)

The All About Automation (AAA) trade fair is for systems, components, software, and engineering for industrial automation and communication. At the fair, on September 22 and 23 in Chemnitz (Germany), the Fraunhofer Institute presents IP core design solutions with Classical CAN, CAN FD, and CAN XL. Besides this, the company exhibits solutions for optical wireless communication in real time using Li Fi, measurement techniques for process and quality monitoring as well as for environmental sensors and control.

### IP core design solutions

The company offers ready-to-use platform-independent IP core modules. With IP cores, developers can adopt complete functional areas in standard products such as SoCs (system-on-a-chip), micro-controllers, FPGAs (field programmable gate array), and Asics (application-specific integrated circuit), thus reducing development times and costs, explained the company. The IP core portfolio currently consists of a CAN controller core (Classical CAN, CAN FD, and CAN XL) and a family of different TSN cores, a [LIN](#) controller core, an Ethernet MAC core, and a Risc-V processor IP core for edge computing applications. In addition to the modules, the institute also offers design services for mixed signal FPGAS and Asics and develops solutions according to functional safety for use in safety-critical applications, such as the automotive industry. At the AAA trade fair, Fraunhofer IPMS presents IP core solutions for automation applications. They can be found at booth 1.148.

The trade fair offers face-to-face events for regional users and suppliers of the automation industry. The demand for professional communication is reflected in the fact that the lecture area of the trade fair is already fully booked. The presence fair is supplemented by the integral components of the "AAA Digital Plus". Thereby formats such as blogs, video blogs, webinars, and community newsletters transfer the knowledge in a virtual way into the community. "At the trade fair on September 22 and 23 in Chemnitz, Fraunhofer IPMS will also be among the 150 exhibitors," reported Fraunhofer IPMS Marketing and Events Manager Sandra Maria Stumpe. "Visitors to the fair will be able to experience live on site the wide range of applications for real-time optical wireless communication using Li Fi, IP core design solutions such as CAN, TSN, Risc-V, measurement technologies for process and quality monitoring as well as for environmental sensing and control," Stumpe continued.

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