Press Release

Berlin, July 6 2021

Kithara and PLC2 Design cooperate for ADAS development

Kithara Software GmbH in cooperation with PLC2 Design GmbH have successfully implemented the integration of the frame grabber card PGC-1000 into the real-time operating system Kithara RealTime Suite. This allows for image data loggers in a real-time context to be significantly accelerated.

Thanks to the ongoing cooperation between the two companies over the past years, specially developed real-time drivers for the PCIe frame grabber card by PLC2 have been created. Embedded in Kithara RealTime Suite, the PGC-1000 is able to almost completely offload the CPU for image acquisition processes within machine vision applications. This allows, for instance, to simultaneously capture up to four GigE Vision camera streams each with 10 Gbit/s. The real-time synchronization of multiple cameras via the PTP function by Kithara is also possible.

The fields of application lie foremost in demanding developments for advanced driver-assistance systems (ADAS) and autonomous driving, where, in addition to the CPU-intensive image acquisiton, numerous other technologies within the real-time enviroment all need to mesh together. Utilization of the card fits seamlessly into the functional spectrum of Kithara RealTime Suite for capturing, processing as well as storaging of image and video data. The acceleration card is especially suited for implementation into existing data logging systems for ADAS development in order to offload important CPU ressources and consequently also allowing for more stable real-time performance.

As specialists in the field of automotive development, both companies benefit especially from each other's know-how and the close collaboration. For cutting-edge areas of application in particular, this optimization between

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hardware and software as well as the resulting synergies are especially advantageous.

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Kithara Software GmbH

Kithara Software is a specialist for real-time solutions, especially for the Windows operating systems family. The real-time extension Kithara RealTime Suite is a comprehensive system library for hardware-dependent programming, communication, automation and machine vision. The software is an easy-to-use and powerful technical basis for advanced applications in production and manufacturing, automotive electronics as well as measurement and control engineering. It is the key element in machine building, testing rig development and other specialized applications. Kithara Software has representations in the USA as well as Asia and supports global companies with their innovative projects.

About PLC2 Design GmbH

PLC2 Design assists its partners mainly in the areas of FPGA design, embedded software, high-speed design, signal & image processing, and continuous integration. The team of the PLC2 Design GmbH supports customers by providing innovative developments.

In addition to customer-specific project development in the embedded market, the company is increasingly looking into the development of its own products. The focus here is on the implementation of high-performance video grabbing and data logger solutions as well.

PLC2 recently moved into its 2nd and new building that will give the great possibility to expand the company during the next few years.

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