Product Focus

More performance for other things: GigE Vision frame grabber

Lower your CPU load! With Kithara RealTime Suite and the frame grabber card PGC-1000, you can operate multiple GigE Vision camera streams simultaneously in a real-time context. The PCIe card by manufacturer PLC2 Design handles the entire compression and decompression of captured GigE Vision data, thus almost completely offloading the CPU during image processes. This allows for machine vision systems to be significantly accelerated and to create a high-performance development environment. For example, camera streams (4×10 Gbit/s or 1×40 Gbit/s) can be run with minimal CPU load, while also enabling captured image data to be stored on SSDs in a RAID group.

Additionally, it is possible to synchronize multiple cameras in real time with PTP. Use of the card fits seamlessly into the functional range of Kithara RealTime Suite for capturing, processing and storaging of image and video data.

Fields of application are foremost developments for advanced driver-assistance systems and autonomous driving, where in addition to otherwise CPU-intensive image capturing, numerous other technologies need to work in tandem with each other. Implementation of the acceleration card is especially advantageous for existing data logger systems in order to save crucial computer resources and allow for more stable real-time performance.

The latest information about Kithara products as well as a free 90-day trial version can be found ›**on our website**.