

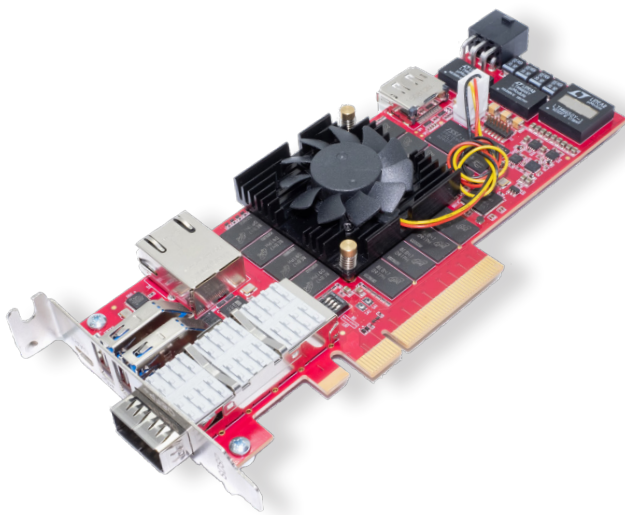


PGC-1000

High Performance data logging



The PLC2 Acceleration Card PGC-1000 is a high-performance PCIe video acquisition card with up to 40 Gb Ethernet via a QSFP+ connector. It is ideally suited to enable high-end multi-camera video data logging and replaying on mid range PCs, to avoid the need for costly very high end multiprocessor computers. The board offers up to 24 GB of DDR4 memory which can be used for frame buffering. PGC-1000 significantly relieves CPU processing by (un-)packing image data frames on programmable hardware and passing it on by PCIe. On the fly lossless or lossy (de-)compressions of image data is also available.



Benefits

- Recording and Hardware-in-the-Loop (replay) capabilities
- Use for replay possible with distribution of bundled data
- Standardized API
- Windows and Linux Drivers support
- Embedded Standard NIC functionality
- direct support by several 3rd party frameworks (e.g. RALO, Kithara OS, CANape, ...)
- Custom protocol termination in FPGA
- Avoidance of real-time operating systems
- Time synchronization between data streams
- L5 (de-) lossless video compression compatible
- Remote access, config and updates from host

Specifications

Form Factor	PCI Express card
Format	low profile, half length, 8-lane PCI Express card
Cooling method	Air cooling, fan-cooled heatsink
Mounting	For insertion in a standard height, 8-lane or higher, PCI Express card slot
Connectors	1x QSFP+ Connector for 4 channels of 10 GbE optic or 40 GbE
Dimensions	L 167.65 mm x H 68.9 mm x THK 1.8 mm
Host bus	
Standard	PCI Express 3.0
Link width	8 lanes, 1, 2 or 4 lanes with reduced performance
Link speed	8.0 GT/s (PCIe 3.0) per lane 5.0 GT/s (PCIe 2.0) per lane (with reduced performance)
Memory	Up to 24 GB DDR4