PGC-1000
Grabber Card

PCle-Based Ethernet Data Acquisition and Replay, Processing, CPU Task Offloading, and Acceleration as a Retrofitting Solution.
PGC-1000

Retrofit Solution for Data Recording, Processing, and Replay

Our PGC-1000 Grabber Card is THE retrofit solution for existing data logging systems. Both data acquisition and replay belong to their special capabilities/abilities/features. The flexibility that the PGC-1000 brings makes it easy to integrate customer-specific protocols into the PGC-1000 to offload compute-intensive CPU tasks.

As one of our key products, the PGC-1000 builds the basis for future growth, acting as anchor for various customer products and proof-of-concepts. We deliver outstanding acquisition performance, together with low power and the flexibility to integrate various custom specific protocols and accelerations within the data-processing-graph.

Utilising the connection to the card via standard PCIe and up to 40G Ethernet, customers within automotive and industrial data acquisition and processing communities, can easily integrate this card into existing PC-based systems to speed up the application and/or lower overall costs and their power-footprint.

The PGC-1000 can be used as an accelerated node for data acquisition, as well as for replay functionalities within the testing of ECUs. It can be integrated with other parts of our portfolio such as the L5 (FPGA-based lossless video compression and decompression), and as standalone data-processing card to offload and unburden existing PC-based processing systems. The Grabber Card is a great extension for many existing and upcoming applications.
**Benefits of the PGC-1000**

1. **Data acquisition and replay**
   This unique combination offers the possibility to upgrade an existing system to the next level.

2. **Retrofit solution**
   The PGC-1000 is ideal to upgrade an existing system instead of replacing it.

3. **Lower costs**
   The integration of the PGC-1000 in a midrange PC, instead of upgrading to a high-performance PC is possible.

4. **FPGA-based architecture**
   An FPGA-based architecture delivers highest flexibility. Various protocols can be integrated and easy updates within the field are possible.

5. **High reliability**
   The certification in terms of safety and environmental conditions guarantees uninterrupted usage in the fleet and ensures the highest reliability for the client.

6. **Massive bandwidth**
   A massive Ethernet input/output bandwidth of 40 Gbit/s each, enables data acquisition and replay for high-speed data.

**Specifications**

**General**

- **Form factor**: PCIe card
- **Format**: Low profile, half length, 8-lane PCIe card
- **Power consumption**: 18W on average
- **Cooling method**: Air cooling, fan-cooled heatsink
- **Mounting**: For insertion in a standard height, 8-lane or higher PCIe card slot
- **Connectors**: 1x QSFP+ Connector for 4 channels of 10 GbE optic
- **Dimensions**: 185 x 123 x 24 mm / 7.28 x 4.84 x 0.94 in

**Host bus**

- **Standard**: PCIe 3.0
- **Link width**: 8 lanes
- **Link speed**: 8.0 GT/s (PCIe 3.0) per lane
- **Memory**: Up to 24 GB DDR4