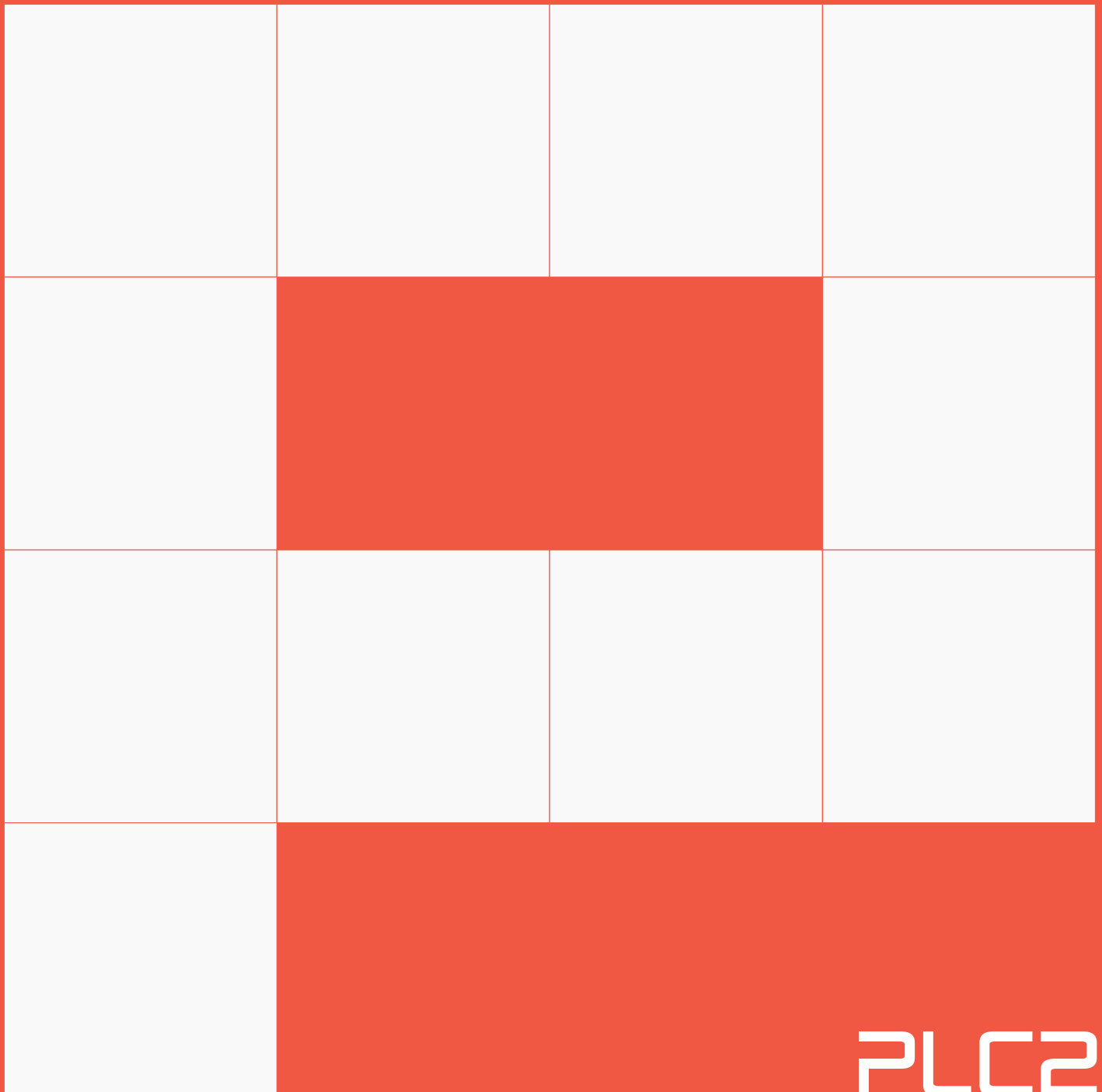


PGC-1000

Grabber Card

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

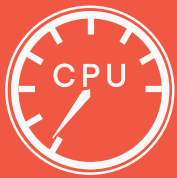


PLC2

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.



Close to 0 % CPU load



Power consumption
18W on average



40 Gbit/s Ethernet



FPGA-based
architecture

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

01 Data acquisition and replay

This unique combination offers the possibility to upgrade an existing system to the next level.

03 Lower costs

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

05 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.

02 Retrofit solution

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

04 FPGA-based architecture

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

06 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

plc2 Design GmbH

Ersteiner Straße 19
79346 Endingen a. K.
Germany

+49 7642 92118 0

products@plc2.de | plc2.com

PLC2