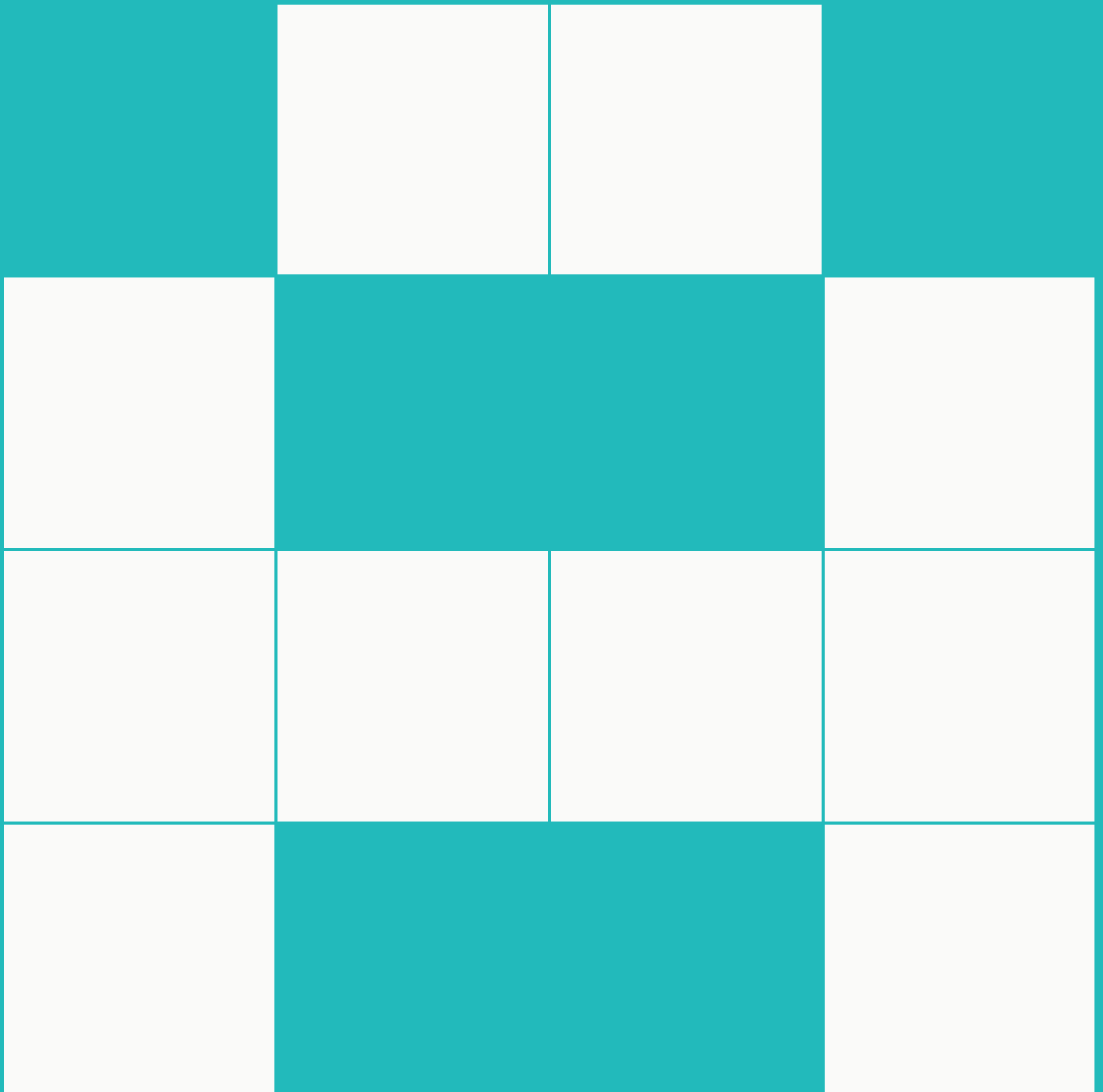


ADL-1000 Data Logger

PLC2

The Next Level of High Performance Data Logging for ADAS/AD.

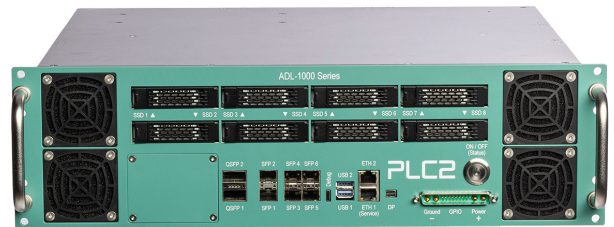


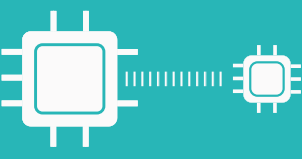



Hardware-Accelerated Data Processing

Our ADL-1000 Data Logger is THE all-in-one star in the domain of holistic data solutions for the edge. Flexible and powerful FPGA-based technology combined with high-performance Ethernet and PCIe brings the data center to your edge solution. The ability to record and store data massively parallel and a best-in-class bandwidth are just two of many great specials. Furthermore, our ADL-1000 can replay data in the field or in validation farms. The flexibility of processing capabilities and the extendability round off the profile for a turnkey solution for your data-centric tasks. Ease of use through well-designed Application Programming Interfaces (APIs) and extensive cooperation with market leaders in sensors and Electronic Control Units (ECUs) data acquisition make our solution ready for all current and future needs. Understanding the market needs in terms of transportation electrification, we have developed a low-power and low-latency solution using AMD's heterogeneous FPGA-based technology, supporting your next-generation projects.

FPGAs are remarkably known for energy-efficient data processing and acceleration and for meeting requirements for fast and reliable data transmission via Ethernet and PCIe.

With the ADL-1000, we extend our PLC2 product portfolio with our core series's first holistic and fully integrated data-centric product. Settling down in the market and expanding our reach to support our customers best within their missions are our named targets.



 <p>FPGA-centric with GPU extension capabilities</p>	 <p>Low power consumption</p>	 <p>Bandwidth up to 128 Gbit/s</p>	 <p>Up to 128 TB NVMe storage</p>
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Key Features

Lossless video (de-)compression

Customer specific data pre-processing

Trigger event driven recording

Extendable for most used automotive interfaces e.g. FlexRay, CAN-FD, etc.

Continuous monitoring of temperature and power

Remote access, configuration, and update

Removable U.2 NVMe SSDs

PTP (IEEE 1588, IEEE 802.1as)

Benefits of the ADL-1000

01 Data recording and replay in one box

The ADL-1000 offers a unique solution for data recording and replay – all in one box.

03 Ultra massive bandwidth

A massive Ethernet input/output bandwidth of 128 Gbit/s enables high-speed data processing and storage.

05 Flexibility, modularity, and extensibility

By using AMD's heterogeneous technologies with FPGA-based acceleration, the ADL brings the high flexibility and modularity that the customer requires.

02 Standalone edge-based solution

As a standalone solution, the ADL-1000 is ideal for all next-generation ADAS/AD projects.

04 Minimal total costs from sensor to data

As an all-in-one solution, the ADL-1000 evokes the lowest costs from sensor over data processing to storage at the edge and in the cloud.

06 Robustness and high reliability

The certification in terms of product safety and environmental conditions guarantees uninterrupted usage in the fleet and ensures the highest reliability for the customer.

Specifications

Input Voltage	Normative 12 VDC / 24 VDC / 48 VDC
Protections	Reverse polarity, over current, under/over voltage, over temperature
Cooling Method	Air-cooled, software controlled
Dimensions	19" 3U, 480 x 450 x 132 mm
Ethernet Interfaces	2x QSFP28 (8x 10 Gbit/s or 2x 40 Gbit/s or 2x 100 Gbit/s Ethernet) 6x SFP+ (6x 10 Gbit/s Ethernet) 1x RJ45 (1 Gbit/s Ethernet) 1x RJ45 (remote access port)
Interfaces	2x USB 3.0 2x CAN (with wake-up capability) 4x GPI, 4x GPO (0-60V open drain)
Power Consumption	Typical range 70-300 W (depending on storage configuration)
Storage	8x U.2 NVMe (up to 128 TB)
Temperature Range	-20 to 60 °C / -4 to 140 °F

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