# DynaCOR 62-10 – ADAS/HIL Logger Edition

AUTOMOTIVE LOGGER - 4U - Dual Intel Xeon - 28GByte/s Sustained Writing - Hot Swap - 100GbE

- **High Performance ADAS/HIL Logger**
- **Up to 28GB/s Sustained Write**
- **Up to 192TB NVMe, Hot-Swappable**
- **Dual Xeon SP**
- **Liquid and Air Cooling**
- **Configuration Service**

## Features

**High Performance ADAS/HIL Logger :** Designed for in-vehicle and in-lab HIL datalogging, with massive storage capacity and outstanding sustained writing performance. Built with reliable components and ruggedized for Road Vehicle deployments

**Vehicle Data Harvesting and Ingestion :** Meets the most demanding requirements of Autonomous Driving projects: it supports up to 28GByte/s sustained write speed for uninterrupted data/video multi stream recording

**Direct Sensor Attach :** Allows direct attach (switchless) to vehicle sensors, with up to 4x100GbE + 2x 10GbE (or 18x 10GbE) interfaces enabling

**Large Storage Capacity :** Supports up to 192TB with three hot-swappable NVME data cartridges, each providing up to 64TB (large configurations require the expansion box). Data cartridges eliminate the need to deal with individual disks when data is transferred to the data center, making the process fast and error-proof

**A Data Center on the Wheels :** Plenty of computational power thanks to the dual Xeon XP 3rd Gen. CPUs and up to 4TB RAM supporting advanced data fusion and filtering workloads. Check out also the DynaCOR 62-10 AI Edition for GPU accelerated variants

**Hybrid Cooling :** Combined liquid and air cooling, to meet a range of deployment needs, both in the vehicle and in the lab/data center

**Configuration Service :** Highly modular design, allows for personalized configurations, including hybrid Logger – Inference (GPU) server ones.

## Description

The DynaCOR 62-10 is a high performance ADAS/HIL logger that provides cutting edge sustained writing speed and storage capacity.

Designed for road vehicles, it offers reliable operation thanks to automotive grade ruggedization; it is also available in non-rugged configurations to enable HIL and vehicle digital twins in the lab and the data center.

The internal fabric provides full PCIe Gen 4 bandwidth between the NVMEs and the 100GbE network cards, to support a sustained write performance of up to 28GByte/s to allow capturing data intensive streams without any glitch.

The storage system capacity reaches 192TB on 12 U.2 disks (large configurations require an expansion box). Up to three hot swappable data cartridges pack 4 disks in convenient data units that can be easily moved from the device in the vehicle to an equivalent unit in the lab / data center, greatly improving the speed and reliability of the data transfer for further processing.

The DynaCOR 62-10 offers a large number of high-performance network interfaces, with 2x 10G/5/2.5/1GbE (RJ45) and up to 4x 100/50/25/10GbE (QSFP28). The 100GbE ports are particularly versatile, since they support precision timing, allow for different types of media (fiber, copper) and can be split each in up to 4 25/10GbE ports, bringing the total count to 18 10GbE ports that can be used to interface directly to sensors.

Thanks to the powerful dual Xeon SP CPUs, the DynaCOR 62-10 can perform on the fly data analysis, filtering and compression, enabling sophisticated data fusion and pre-processing strategies. For even more capacity and computational capabilities it is also possible to cluster multiple DynaCOR 62-10 with other Eurotech ADAS products, including the AI ADAS servers for inference and training.

Eurotech configuration management service allows fine tuning the DynaCOR 62-10 to meet and exceed your project requirements; call us for more information for more options.

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| Ordering Code: DYCOR-62-10-XX | | | | |
|---|---|---|---|---|
| XX | | -01 | -02 | -03 |
| **PROCESSOR** | CPU | 1x Xeon® Silver 4314 (3rd Gen); 16 Cores / 32 Threads; 2.40 GHz (3.40GHz Turbo) | 2x Xeon® Silver 4314 (3rd Gen); 32 Cores / 64 Threads; 2.40 GHz (3.40GHz Turbo) | |
| **ACCELERATORS** | GPU | Factory Option | | |
| **MEMORY** | RAM | 64GB DDR4 ECC | 128GB DDR4 ECC | 256GB DDR4 ECC |
| **STORAGE** | OS Disk | 500GB NVMe (PCIe x4) | | |
| | Data | 64TB (4x U.2 G4) RAW; 1x Data Cartridge | 128TB (8x U.2 G4) RAW; 2x Data Cartridge, Hot Swap | 192TB (12x U.2 G4) RAW; 3x Data Cartridge, Hot Swap |
| | RAID | RAID 0/1/10; Software RAID | RAID 0/1/10; Hardware RAID | |
| **I/O INTERFACES** | Ethernet | 2x 100/50/25/10GbE (QSFP28); 2x 10G/5/2.5/1GbE (RJ45); Each 100GbE can be Split in 4x 25/10GbE Ports | | 4x 100/50/25/10GbE (QSFP28); 2x 10G/5/2.5/1GbE (RJ45); Each 100GbE can be Split in 4x 25/10GbE Ports |
| | Timing Support on Ethernet | IEEE 1588 PTP v1 and v2 Support | | |
| | USB | 4x USB 3.0 (Type A); 2x USB 2.0 (Type A) | | |
| | CAN | 4x CAN-FD bus (ISO 11898-2) (DB9, CiA® 303-1); Galvanic Isolation up to 500V | | |
| | Serial | 1x RS-232 (DB9 Connector) | | |
| | Video Out | 1x VGA | | |
| **CYBERSECURITY (HARDWARE)** | TPM | TPM 2.0 Support | | |
| **SYSTEM MANAGEMENT** | BMC | Yes | | |
| | BMC LAN | Yes | | |
| **EXPANSIONS** | Internal Expansion | 1x M.2 (x4 G4), 4x PCIe (x16 G4), 2x PCIe (x8 G4), 2x SlimSAS (x8 G4); Expansion Availability Depends on Product Configuration | | |
| **COOLING** | Technology | Hybrid Liquid (CPU, GPU) | | |
| | Accessories | External Radiator with Reservoir and Pump | | |
| **POWER** | Input | Automotive Grade: 9 ~ 18VDC / 1000Watt; Factory Option: 110/230V AC; Screw Terminals for Ring Eyelets (DC) | | |
| **ENVIRONMENT** | Operating Temp. | -20° to +70°C | | |
| | Storage Temp. | -20° to +70°C | | |
| | Humidity | 10 to 90% Relative Humidity (Non-condensing) at +40°C | | |
| **CERTIFICATIONS** | Regulatory | EU/UK: CE, UKCA; North America: Factory Option; Japan: Factory Option; Other Countries (Factory Option) | | |
| | Safety | Low voltage safety (2014/35/EU); EN 62368, UL 60950 (§) | | |
| | Road | CE (93/68/EWG); EMV (2014/30/EU) | | |
| | Environment | RoHS3, REACH | | |
| | Ingress | IP20 | | |
| **MECHANICAL** | Enclosure | Material: Metal; Color: Black | | |
| | Dimensions | 430 x 177 x 401mm (W x H x D) | 430 x 292 x 417mm (W x H x D) | |

| SOFTWARE | | |
|---|---|---|
| **SOFTWARE** | OS | Linux; Win 10/11/Server |

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