

Eagle^{PC-DUAL}



19" Rack Mount Conduction Cooled Dual PC



Control | Acquire | Process

Key Features

- Robust and Lightweight Milled Aluminium Chassis (< 8kg)
- Twin Intel Core i7 Dual Core CPU Cards
- Built-in 12 port Gigabit Ethernet Switch
- Conduction Cooled (no fans)
- Low power Dual Redundant Supplies (110-250 V ac <100W)
- Can Support 32-64 Acquisition Channels (each half)
- 5 x Gigabit Ethernet Network Ports (each half)
- Twin HDMI Port Digital Graphics (each half)
- 6 x USB Ports (each half)
- 250GB -7.6TB SSD Storage Options (each half)

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Connect

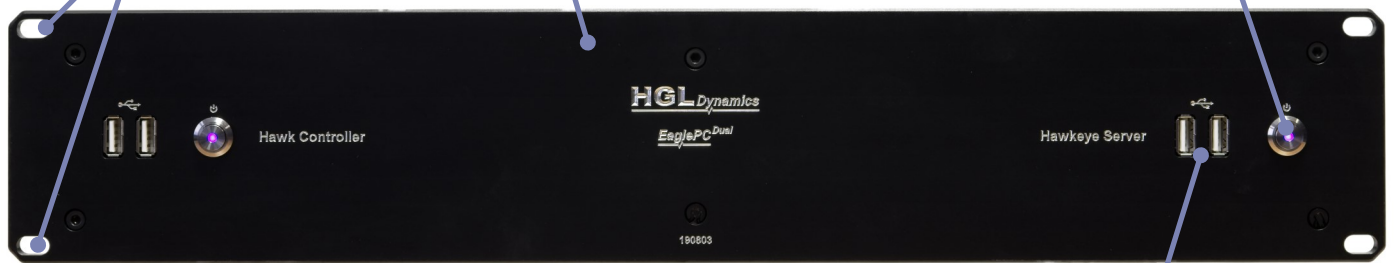
19" Rack Mount

Standard 2U Mounting Holes
Requires no rails

Robust Chassis

Milled Aluminium
Conduction Cooled

Illuminated Power Switch



2 x USB2 Ports

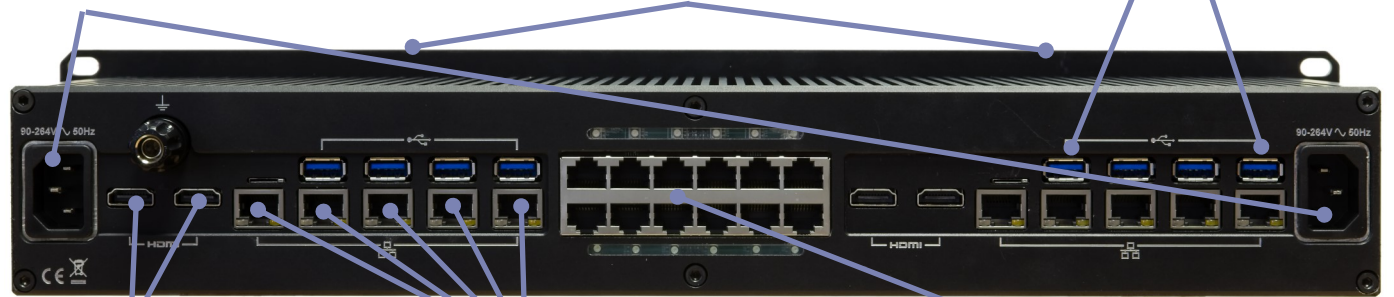
Flexible Power

- 110-250 V ac
- 50/60 Hz
- Dual Redundant

Performance

- Dual Intel Core i7 CPUs
- 8 –32 GByte RAM
- 256GB—7.6TB Storage,

4 x USB3 ports



Twin HDMI Graphics

Adaptable Network Topologies

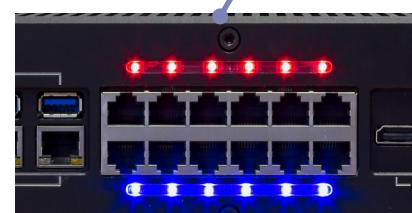
Five Gigabit Network Ports allows for multiple application topologies.

Adaptable Network Topologies

Built in 1 x 12 or 2 x 6 Port Gigabit Switch
Software Controlled with LED Identification



1 x 12 port (set to GREEN)



2 x 6 port (set to RED & BLUE)



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Software Overview

Data Acquisition - Hawk

HGL's Hawk acquisition software provides everything a user needs to configure, calibrate and acquire data from the acquisition hardware. Full control and feedback of the system is provided by the Hawk GUI Client application; this provides an intuitive instrument-like interface that allows even novice users to operate large channel count systems, even from remote locations.



Real-Time Monitoring - Hawkeye

Hawkeye allows one or more users to monitor the signals being acquired in real-time (<0.1s latency).

Fully customisable displays such as FFTs, Waterfalls, Oscilloscopes, Numerical, Speed and Tracked-orders, Phase, Bode, Orbit, nth Octave etc, provide a rich monitoring environment.

Hawkeye also provides Time, Frequency, Order and Phase domain alarming facilities for all channels simultaneously, with support for many different alarms types per channel. Hawkeye is also client / server based with the 'thin' Hawkeye Client allowing local or remote monitoring (performance dependent on network



Analysis - Aurora

Aurora provides an in-depth analysis tool for acquired data; this is usually required post-test, but can be operated simultaneously with testing if useful. Post-test analysis can pinpoint areas of interest / problems to be further investigated, and for this purpose Aurora provides a range of client / server based tools to analyse, investigate, mine, summarise and report on acquired data.

Multiple users can use Aurora simultaneously, and in common with HGL software portfolio access is via a network connected thin-client (Aurora Client) application, thus allowing both local and (potentially widely) remote users to access data simply and



Data Storage & Archiving - Hercules

Prolonged or large-scale data acquisition generates a lot of data, 10's and 100's of TBytes are not unusual for large enterprises. Data is expensive to collect and the functionality to efficiently store and retrieve legacy data is essential for in-service investigations, product development etc.

HGL's Hercules software provides an integrated, low-cost, yet highly scalable and safe data management solution for any sized data acquisition operation. The key to the system's success is support for virtually any common media type (SD cards, HDD/SSDs, LTO tapes etc.) combined with a unique database architecture providing simple, yet highly efficient data storage information, and a client/server architecture which allows data to be managed across multiple remote sites from a single intuitive Graphical User Interface.



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Specification

General

Dimensions (W x H x D):	450 x 90 x 180 mm
Weight:	8 kg (typical)
Supply Voltage:	110-250V ac 50/60Hz
Power:	100.0 W (typical)

Environmental

Operating Temp.:	-10 to 50°C
Storage Temp:	-40 to 85°C

Features (per half)

Processor:	Intel Core i7-6600U or 8665IE	Network:	5 x 1000BaseT Ports
Memory:	8-32 GByte DDR4		1 x 12 (or 2 x 6) port 1000BaseT Switch
Storage:	120-260 GByte SSD (OS & S/W)	USB:	2 x USB2 (Front)
	256GB-7.6TB SSD (Data)		4 x USB3
OS	Microsoft Windows 10		
S/W	HGL Hawk, Hawkeye, Aurora		

Models

Eagle ^{PC-DUAL}	2x i7-6600U, 8GB RAM, 256GB SDD
Eagle ^{PC-DUAL-8}	2x i7-8665UE, 8GB RAM, 256GB SSD
Eagle ^{PC-DUAL-MIX}	1x i7-6600U, 1x i7-8665UE, 8GB RAM, 256GB SSD

Options

Memory Size	-8 (default), -16, or -32 (specify L or R)
Main Drive	-256G (default), -512G, -1T, 2T or 8T (specify L or R)
Extra Drive	-x1T, -x2T or -x8T (specify L or R)

Example:

An i7-8665 Model with 512G Main Drives (both sides), 16GB RAM right side and 8T extra drive right side.

EaglePC-DUAL-512G-16R-x8TR

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Training

Training

HGL Dynamics offers a wide variety of training workshops and courses. Workshops are conducted at one of our global offices or at the client's site by our training team, all of whom have many years' of industry experience and knowledge.

Typical training courses include: Vibration Fundamentals, Signal Processing, Rotating Machinery, Advanced use of HGL Software and Analysing Large Datasets.



Information

About HGL Dynamics

HGL Dynamics is a world-leading supplier of services and high specification equipment for the integrated capture, monitoring, analysis, storage

Purchasing & Availability

The HGL Dynamics Dragonfly⁸ Data Acquisition Module is now available for purchase or lease. Please contact one of our HGL Dynamics offices

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