

Cadalyst Labs Workstation Review Specifications

Orbital Computers LLC

Orbital C1000

<https://orbitalcomputers.com>

877.976.7510

Cadalyst Rating: A-

Estimated street price, as delivered	\$3,598 as configured (includes shipping and full warranty); starts at \$1,395
Dimensions (HxWxD in inches)	19" x 9" x 21"
Weight (lbs)	45 lbs
CPU type	Intel Core i7 4790K 4 cores, 8 threads 8 MB L3 Cache
CPU speed	4.4 GHz. Overclock to 4.6 GHz available for free upon request. Fully covered under warranty.
L2 cache-size/speed	4x 256KB
Motherboard vendor	Gigabyte
Motherboard model	GA-Z97X-UD3H-BK Black Edition
Memory type/speed	Crucial DDR3 1600 MHz, CAS Latency: 9
Memory, as tested and max	16GB / 32 GB Max
Memory sockets, total/free	2/4 (in dual-channel mode)
Supports ECC memory?	No
System BIOS, date	F7e, 4/22/2015
Power supply vendor	Corsair RM Series 80 Plus Gold Certified, fully modular
Power supply capacity	750W
Hard drive vendor	Intel
Hard drive type	NVME PCI-e SSD
Hard drive size	400 GB (available in 1.2 TB)
Sound card	Integrated 7.1 surround sound Realtek ALC1150 115dB SNR HD Audio
Pointing device	Mouse
Graphics bus (AGP, PCI-Express)	PCI-Express 3.0
Expansion slots provided (PCI-Express/PCI/PCI-ISA/ISA)	3 PCI-e x1/3 PCI-e x16 wired x16,x8,x4/1 PCI
Expansion slots filled (PCI-Express/PCI/PCI-ISA/ISA)	2 PCI-e (x16 & x8)
Drive bays accessible (5.25"/3.5"/2.5")	1x5.25/8x3.5 or 2.5/2x2.5 (on back panel of case)
Drive bays internal (5.25"/3.5"/2.5")	2x5.25/8x3.5 or 2.5/2x2.5 (on back panel of case)
USB Ports (2.x/3.x)/Firewire	12 total: 6xUSB 2.0, 6xUSB 3.0, Firewire available upon request
Serial/parallel	Available with adapter
MIDI/game	Available with adapter
External SCSI	N/A
Network card/modem	Integrated Intel Gigabit LAN (10/100/1,000 Mbit)
Graphics card bus (AGP/PCI)	PCI-e 3.0

Graphics card model	NVIDIA Quadro K4200
Graphics card onboard memory	4-GB GDDR5
Graphic card driver version	353.30 WHQL
Graphics card 3D resolution, maximum	3,840 x 2,160
Special AutoCAD driver/version	N/A
Warranty: labor/parts/on-site (months)	60 months labor/36 months parts/24 months on-site included by default on all workstations. Individual parts have extended warranties (such as RAM-lifetime, PSU-5 years). Includes full system image restore disk.
24-hour replacement parts?	Overnight/1-day express parts replacement
24-hour telephone support?	N/A
Return policy/restocking fee	Return for replacement only.
Is product certified for use with CAD-related software applications? Yes/No	Yes
If yes, please include a URL indicating which vendors/applications, or list the information and indicate "Contact company for more information."	1. http://www.nvidia.com/object/quadro-certified-drivers.html#page=partnerSelected 2. Full system certification for Vectorworks 2014 http://www.vectorworks.net/support/quality-tested-hardware/
CADALYST REVIEW RESULTS	
C2015 (1,920 x 1,280)	
Total Index	690
3D Index	1,622
2D Index	474
Disk Index	389
CPU Index	243
SPECwpc	
Rodinia	2.56
CalculiX	1.75
WPCcfd	1.94
IOMeter (x10)	48.08
Catia-04	4.46
Showcase-01	3.8
SNX-02	3.38
SW-03	4.65
General Operations	6.68
7Zip	4.79
Python	2.15
Octave	1.89
IOMeter (x10)	102.17