



Cadalyst Labs Workstation Review

Dell

Precision Tower 5810

800.456.3353

www.dell.com/precision

Cadalyst Rating: A-

Estimated street price, as delivered	\$3,449 (\$1,199 starting price)
Dimensions (HxWxD in inches)	16.3" x 6.8" x 18.5
Weight (lbs)	29lbs
CPU type	Intel Xeon E5-1630 v3
CPU speed	3.1 GHz
L2 cache-size/speed	L3 8 MB
Motherboard vendor	Dell
Motherboard model	Dell Tower 5810
Memory type/speed	DDR4 2,133 MHz
Memory, as tested and max	16 GB/256 GB
Memory sockets, total/free	8/
Supports ECC memory?	Yes – RDIMM memory
System BIOS, date	NA
Power supply vendor	Dell
Power supply capacity	685W
Hard drive vendor	NA
Hard drive type	1 TB 3.5" serial-ATA (7,200 RPM)
Hard drive size	Three 3.5" or four 2.5"
Sound card	Realtek ALC3220
Pointing device	Dell MS111 USB optical mouse
Graphics bus (AGP, SATA, PCI-Express)	SATA SSD
Expansion slots provided (PCI-Express/PCI/PCI-ISA/ISA)	5 slots: 2 PCIe x16 Gen 3, 1 PCIe x16 Gen 3 wired x8 half length; 1 PCIe x4 Gen 2; 1 PCI3 x1 Gen2, 1 32-bit/33MHz
Expansion slots filled (PCI-Express/PCI/PCI-ISA/ISA)	1st x16 Gen 3 PCIe slot
Drive bays accessible (5.25"/3.5"/2.5")	1 external slimline optical bay is standard. (5.25" bay can take additional options factory installed or APOS with customer kits - 2 x 2.5" drives, FH optical drive or MCR)
Drive bays internal (5.25"/3.5"/2.5")	2 x 3.5" bays for 3.5' or 2.5" drives
USB Ports (2.x/3.x)/Firewire	10/4/No Firewire
Serial/parallel	1/
MIDI/game	0
External SCSI	0
Network card/modem	Integrated Intel® i217 Gigabit Ethernet LAN 10/100/1000

Graphics card bus (AGP/PCI)	2 x PCIe Gen 3 x16 slots
Graphics card model	NVIDIA Quadro K4200 4GB
Graphics card onboard memory	8 GB GDDR5
Graphic card driver version	347.88
Graphics card 3D resolution, maximum	4,096 x 2,160 @ 60Hz
Special AutoCAD driver/version	NA
Warranty: labor/parts/on-site (months)	Basic hardware service for 3 years
24-hour replacement parts?	Next business day
24-hour telephone support?	Yes
Return policy/restocking fee	30 days, minus shipping and 15% purchase price
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."	http://www.dell.com/us/business/p/precision-t5810-workstation/pd?oc=cap5810w7p009&model_id=precision-t5810-workstation&l=en&s=bsd
CADALYST REVIEW RESULTS	
C2015 (1,920 x 1,280)	
Total Index	576
3D Index	142
2D Index	1,345
Disk Index	305
CPU Index	309
SPECviewperf 12 (1,920x1,080)	
catia-04	64.47
creo-01	55.14
energy-01	29
maya-04	52.71
medical-01	20.48
showcase-01	35.89
snx-02	59.15
sw-03	92.66
SPECwpc	
Product Development	
Composite	2.89
Rodinia	1.06
CalculiX	1.49
WPCcfd	1.35
IOMeter (x10)	2.432
Catia_04	4.21
Showcase-01	3.64
Snx-02	3.345
SW-03	4.45
General Operations	
Composite	3.7
7 ZIP	1.93
Python	1.08
Octobe	1.59
IOMeter (x10)	5.675