

SOLIDWORKS 2015 Hardware Recommendations

Minimum System

OS: Windows 8® 64, or Windows 7® 64

CPU: Intel® Core™ i7 Quad Core, or equivalent AMD®

Hard Drive: >500GB HDD 7200rpm

Graphics Card: 2GB NVIDIA® Quadro® K2100M, 2 GB ATI FirePro M4100™, or similar

Memory: 8GB

- ✔ This is a good system for simple parts, moderately sized assemblies and drawings.
- ✔ Assemblies should contain less than 200 components.
- ✔ The system is efficient for running part and assembly simulations including linear statics, thermal, frequency, fatigue, and optimization. Gap and contact simulations will run fine on small assemblies that contain simple parts.
- ✔ The system is sufficient for simple flow simulations.
- ✔ Approximate cost for above laptop : \$1,500
- ✔ Approximate cost for desktop equivalent: \$1,200

Basic System

OS: Windows 8® 64, or Windows 7® 64

CPU: Intel® Core™ i7 Quad Core, or Intel® Xeon™ , or equivalent AMD®

Hard Drive: >128GB Solid State Drive + 500GB HDD 7200 rpm

Graphics Card: 4GB NVIDIA® Quadro® K3100M, 2 GB AMD FirePro M6100™, or similar

Memory: 8-16GB (as required)

- ✔ Use this configuration for complex parts that include advanced shapes, large patterns, shells, and more than 200 features.
- ✔ The system is adequate for assemblies that contain 200-1,000 components.
- ✔ The system is efficient for running part and assembly simulations including non-linear, dynamics, random vibrations along with moderate gaps and contacts.
- ✔ The system is sufficient for moderate flow simulations.
- ✔ Approximate cost for above laptop: \$2,100
- ✔ Approximate cost for desktop equivalent: \$1,900

Advanced System

OS: Windows 8® 64, or Windows 7® 64

CPU: Intel® Core™ i7 Quad Core, or Intel® Xeon™ , or equivalent AMD®

Hard Drive: >256GB Solid State Drive + 500GB HDD 7200 rpm

Graphics Card: 4GB NVIDIA® Quadro® K4100M, 2GB AMD FirePro M6100™, or similar

Memory: 16GB + (as required)

- ✔ This configuration should be used for large assemblies that contain 1,000 – 200,000 components.
- ✔ The system is sufficient for large complex analysis and large flow simulations.
- ✔ Approximate cost for above laptop: \$2,800
- ✔ Approximate cost for desktop equivalent: \$2,300

Software Requirements for SOLIDWORKS 2015

Video

A certified OpenGL workstation graphics card and driver.

For a listing of tested and certified graphics cards and driver combinations visit the SOLIDWORKS System/Graphics Card Requirements Website.

<http://www.solidworks.com/sw/support/videocardtesting.html>

CPU

Intel® or AMD® with SSE2 support. 64-bit operating system recommended.

Note: SOLIDWORKS is not supported on Apple Mac® based machines.

eDrawings® is supported on Apple Macintosh®-based machines.

Other

Mouse or other pointing device.

DVD drive or broadband internet connection

Microsoft Word/Excel 2007, 2010, or 2013

Internet Explorer version 8 or higher

Adobe Acrobat version 7.0.7 or higher

ECC Ram preferred

Anti-Virus http://www.solidworks.com/sw/support/AntiVirus_SW.html

Network

SOLIDWORKS is tested only with Microsoft's Windows Networking and Active Directory network environments.

Novell networks and non-Windows based network storage devices are not supported.

OS

Windows 8.1® 64-bit only (SOLIDWORKS 2014 SP1)

Windows 8® 64-bit only

Windows 7® 64-bit only

SNL Server Requirements

Windows 7® 64-bit only

Windows 8.1® 64-bit only


Windows 8® 64-bit only

Windows Server 2008® R2

Windows Server 2012® and 2012® R2

Virtual servers are not supported for SNL.

Notes

 Windows Home Editions and Windows To Go are not supported.

Recommended: DVD drive. Minimum: Internet enabled network connection.

Enterprise PDM System Requirements

System hardware and operating system requirements for SOLIDWORKS Enterprise PDM products.

SOLIDWORKS Enterprise PDM CAD Editor

Operating Systems	2012	2013	2014	2015
Windows 7	✓	✓	✓	✓ (64-bit)
Windows 8.1 (64-bit only)	✗	✗	✓ (SP1)	✓
Windows 8 (64-bit only)	✗	✓	✓	✓
Windows Vista	✓	✓	✗	✗
Windows XP	✓	✗	✗	✗
Minimum Hardware				
RAM	2 GB or more			
Disk Space	10 GB or more			
Processor	Intel® or AMD® processors			
Microsoft Office Document Support	2003, 2007, 2010	2003, 2007, 2010	2003, 2007, 2010	2010, 2013
Other				
Anti-Virus	Supported Anti-Virus Products			
Networking	Microsoft Windows networking. Novell networks and non-Windows network storage devices are not supported			
Virtual environments and storage devices	Supported storage devices			

SOLIDWORKS Enterprise PDM Contributor and Viewer

Operating Systems	2012	2013	2014	2015
Windows 7	✓	✓	✓	✓
Windows 8.1 (64-bit only)	✗	✗	✓ (SP1)	✓
Windows 8 (64-bit only)	✗	✗	✓	✓
Windows Vista	✓	✓	✗	✗
Windows XP	✓	✓	✗	✗
Minimum Hardware				

Operating Systems	2012	2013	2014	2015
RAM	2 GB or more			
Disk Space	5 GB or more			
Processor	Intel® or AMD® processors			
Microsoft Products				
Microsoft Office	2003, 2010	2007, 2010	2003, 2007, 2010	2003, 2007, 2010, 2013
Other				
Anti-Virus	Supported Anti-Virus Products			
Networking	Microsoft Windows networking. Novell networks and non-Windows network storage devices are not supported			
Virtual environments and storage devices	Supported storage devices			

SOLIDWORKS Enterprise PDM Client - Web

Operating Systems	2012	2013	2014	2015
Windows 7	✓	✓	✓	✓
Windows 8.1 (64-bit only)	✗	✗	✓ (SP1)	✓
Windows 8 (64-bit only)	✗	✗	✓	✓
Windows Vista	✓	✓	✗	✗
Windows XP SP2	✓	✓	✗	✗
Minimum Hardware				
RAM	2 GB or more			
Disk Space	5 GB or more			
Processor	Intel® or AMD® processors			
Web Browser				
Internet Explorer	IE 7,8,9	IE 8,9,10	IE 8,9,10	IE 9,10,11

SOLIDWORKS Enterprise PDM Archive Server

Operating Systems	2012	2013	2014	2015
Windows Server 2003	✓	✓	✗	✗
Windows Server 2008	✓	✓	✓	✗
Windows Server 2008 R2	✓	✓	✓	✓
Windows Server 2012	✗	✗	✓	✓
Minimum Hardware				
RAM	4 GB or more			
Disk Space	50 GB or more			
Processor	Intel® or AMD® processors			
Other				
Virtual environments and storage devices	Supported storage devices			

Database Server

Operating Systems	2012	2013	2014	2015
Windows Server 2003	✓	✓	✗	✗
Windows Server 2008	✓	✓	✓	✗
Windows Server 2008 R2	✓	✓	✓	✓
Windows Server 2012	✗	✗	✓	✓
SQL Server Platform				
SQL 2005 SP2	✓	✓	✓	✓
SQL 2008	✓	✓	✓	✓
SQL 2008 R2	✓	✓	✓	✓
SQL 2012	✗	✓ *	✓	✓
Minimum Hardware				
RAM	8 GB or more			
Disk Space	10 GB or more			
Processor	Intel® or AMD® processors			
Other				

Operating Systems	2012	2013	2014	2015
Virtual environments and storage devices	Supported storage devices			

Web Server

Operating Systems	2012	2013	2014	2015
Windows Server 2003 & Information Services (IIS)	✓	✓	✗	✗
Windows Server 2008 & Information Services (IIS)	✓	✓	✓	✗
Windows Server 2008 R2 & Information Services (IIS)	✓	✓	✓	✓
Windows Server 2012 & Information Services (IIS)	✗	✗	✓	✓
Minimum Hardware				
RAM	4 GB or more			
Disk Space	5 GB or more			
Processor	Intel® or AMD® processors			
Other				
Virtual environments and storage devices	Supported storage devices			

Notes

The minimum requirement is the recommended minimum to run the software. These recommendations will vary depending on implementation size. SOLIDWORKS Corporation cannot guarantee system performance or behaviour for installations running on configurations not meeting the minimum recommended levels. The hard drive requirements are solely dependent on the size of data stored in the system. Therefore, the actual requirements can exceed the values stated.

It is not recommended to install any instances of other applications on the Database or Archive Server. It is recommended these are dedicated machines.

To ensure optimum performance, it is not recommended to install anti-virus software on the vault computer

* Microsoft SQL Server 2012 supported as of Enterprise PDM 2013 SP3

Workgroup PDM System Requirements

SOLIDWORKS Workgroup PDM Client & Viewer

Operating Systems	2012	2013	2014	2015
Windows 7	✓	✓	✓	✓
Windows 8.1 (64-bit only)	✗	✗	✓ (2014 SP1)	✓
Windows 8 (64-bit only)	✗	✓	✓	✓
Windows Vista	✓	✓	✗	✗
Windows XP SP2	✓	✗	✗	✗
Minimum Hardware				
RAM	2 GB or more			
Disk Space	5 GB or more			
Processor	Intel® or AMD® processors			
Other				
Internet Explorer	IE 7,8,9	IE 8,9,10	IE 8,9,10	IE 9,10,11
Virtual environments and storage devices	Supported storage devices			

SOLIDWORKS Workgroup PDM Vault

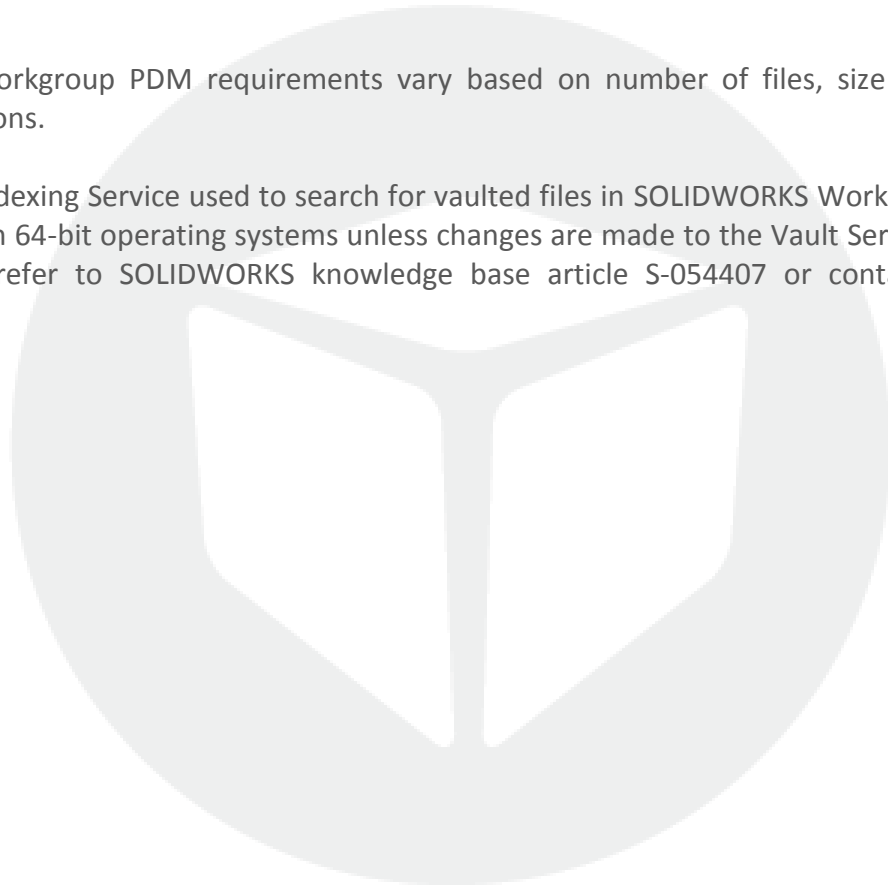
Operating Systems	2012	2013	2014	2015
Windows Server 2003 SP1	✓	✓	✗	✗
Windows Server 2008	✓	✓	✓	✗
Windows Server 2008 R2	✓	✓	✓	✓
Windows Server 2012	✗	✗	✓	✓
Windows Small Business Server Editions	✗	✗	✗	✗
64-bit Operating System Support	✓	✓	✓	✓
Minimum Hardware				
RAM	2 GB or more			
Disk Space	50 GB or more			

Operating Systems	2012	2013	2014	2015
Processor	Intel® or AMD® processors			
Other				
Web Server Requirements	Microsoft Internet Information Services (IIS) 7.0 or later.			
API Trigger Requirements	Microsoft Message Queuing (MSMQ), Microsoft Message Queuing Triggers			
Virtual environments and storage devices	Supported storage devices			

Notes

SOLIDWORKS Workgroup PDM requirements vary based on number of files, size of files, and number of revisions.

The Microsoft Indexing Service used to search for vaulted files in SOLIDWORKS Workgroup PDM is not supported on 64-bit operating systems unless changes are made to the Vault Server operating system. Please refer to SOLIDWORKS knowledge base article S-054407 or contact Technical Support.



Mobile System Samples

Minimum Configured System from Dell



Dell Precision M4800 Mobile Workstation

Starting Price\$2,270.71
 Instant Savings.....\$681.21

Subtotal.....**\$1,589.50**

As low as \$48.00 /month^

[Dell Business Credit | Apply](#)

[Discount Details](#)

My Selections

All Options

• Dell Precision M4800 Mobile Workstation

Date	3/16/2015 9:24:26 PM Central Standard Time			
Catalog Number	4 Retail 04			
Catalog Number / Description	Product Code	Qty	SKU	Id
Processor: Intel® Core™ i7-4710MQ (Quad Core 2.50GHz, 3.50GHz Turbo, 6MB 47W, w/HD Graphics 4600)	I74710	1	[338-BFIE]	146
Operating System: Windows 7 Professional, English, 64-bit (includes Windows 8.1 Pro 64bit License)	DW17P6E	1	[536-BBBD]	11
Office Productivity Software: No Office License Included	13TMUI	1	[630-AABP]	1002
Video Card: NvidiaQuadro K2100Mw/2GB GDDR5	K2100M	1	[490-BBLD]	6
LCD: 15.6" HD(1366x768) Anti-Glare LED-backlit	HDE	1	[391-BBWH]	760
Energy Star: No Energy Star	NOESTAR	1	[387-BBDO]	122
Chassis Options: Smartcard Reader Base (Non FIPS) for HD/FHD/UHD Panel	BLWSHE	1	[329-BCBW]	116
Back Cover: Back cover for HD+ panel no WiGig	HNWIGE	1	[320-BBMJ]	376
Power Cord: US Power Cord	USPWR	1	[450-AAUO]	20
Memory: 8GB (2x4GB) 1600MHz DDR3L	8G2E16	1	[370-AAUS]	3
Raid Connectivity: NO RAID	NORAID	1	[780-BBFE]	1009
Hard Drive: 500GB 2.5" 7200rpm Hard Drive	500G7H	1	[400-AEKW]	8

Basic Configured System from Dell



Dell Precision M6800 Mobile Workstation

Starting Price \$2,997.14
 Instant Savings \$899.14

Subtotal **\$2,098.00**

As low as \$63.00 /month[^]

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[Discount Details](#)

My Selections

All Options

• Dell Precision M6800 Mobile Workstation

Date	3/16/2015 9:16:37 PM Central Standard Time			
Catalog Number	4 Retail 04			
Catalog Number / Description	Product Code	Qty	SKU	Id
Processor: Intel® Core™ i7-4710MQ (Quad Core 2.50GHz, 3.50GHz Turbo, 6MB 47W, w/HD Graphics 4600)	I74710	1	[338-BFIE]	146
Operating System: Windows 7 Professional, English, 64-bit (includes Windows 8.1 Pro 64bit License)	DW17P6E	1	[536-BBBD]	11
Office Productivity Software: No Office License Included	13TMUI	1	[630-AABP]	1002
Video Card: AMD FirePro M6100 w/2GB GDDR5	M5100	1	[490-BBKT]	6
ENERGY STAR: No Energy Star	NOESTAR	1	[387-BBDO]	122
LCD: 17.3" UltraSharp™ FHD(1920x1080) Wide View Anti-Glare LED-backlit with Premium Panel Guarantee	FHDE	1	[391-BBWJ]	760
Chassis Options: Smartcard Reader Base (Non FIPS)	BSGRSE	1	[329-BCBT]	116
Back Cover: Back cover for HD+/FHD panel no WiGig	NWIGIE	1	[320-BBMH]	376
Memory: 8GB (2x4GB) 1600MHz DDR3L	8G2E16	1	[370-AAUS]	3
Raid Connectivity: No RAID	NORAID	1	[780-BBFE]	1009
Hard Drive: 128GB 2.5inch Serial ATA Solid State Drive	SSD128	1	[400-AAXZ]	8
Secondary Hard Drive: 500GB 2.5" 7200rpm Hard Drive	500G7SA	1	[400-AGGF]	637
Third Hard Drive: No Additional Hard Drive	NOHDDA	1	[401-AADF]	54
Optical Bay Hard Drive: No Optical Bay Hard Drive	NOBHD	1	[401-AADF]	277
Optical Drive: 8X DVD-ROM Tray Load	8DVD	1	[429-AAHS]	16

Advanced Configured System from Dell



Dell Precision M6800 Mobile Workstation

Starting Price.....\$4,202.14
Instant Savings.....\$1,260.64

Subtotal.....\$2,941.50

As low as \$89.00 /month[^]

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[Discount Details](#)

My Selections

All Options

• Dell Precision M6800 Mobile Workstation

Date	3/16/2015 9:19:42 PM Central Standard Time			
Catalog Number	4 Retail 04			
Catalog Number / Description	Product Code	Qty	SKU	Id
Processor: Intel® Core™ i7-4710MQ (Quad Core 2.50GHz, 3.50GHz Turbo, 6MB 47W, w/HD Graphics 4600)	I74710	1	[338-BFIE]	146
Operating System: Windows 7 Professional, English, 64-bit (includes Windows 8.1 Pro 64bit License)	DW17P6E	1	[536-BBBD]	11
Office Productivity Software: No Office License Included	13TMUI	1	[630-AABP]	1002
Video Card: Nvidia® Quadro® K4100M w/4GB GDDR5	K4100M	1	[490-BBKV]	6
ENERGY STAR: No Energy Star	NOESTAR	1	[387-BBDO]	122
LCD: 17.3" UltraSharp™ FHD(1920x1080) Wide View Anti-Glare LED-backlit with Premium Panel Guarantee	FHDE	1	[391-BBWJ]	760
Chassis Options: Smartcard Reader Base (Non FIPS)	BSGRSE	1	[329-BCBT]	116
Back Cover: Back cover for HD+/FHD panel no WiGig	NWIGIE	1	[320-BBMH]	376
Memory: 16GB (4x4GB) 1600MHz DDR3L	16G416	1	[370-AAUT]	3
Raid Connectivity: No RAID	NORAID	1	[780-BBFE]	1009
Hard Drive: 256GB 2.5inch Serial ATA Solid State Drive	SSD256	1	[400-AAYB]	8
Secondary Hard Drive: 500GB 2.5" 7200rpm Hard Drive	500G7SA	1	[400-AGGF]	637
Third Hard Drive: No Additional Hard Drive	NOHDDA	1	[401-AADF]	54
Optical Bay Hard Drive: No Optical Bay Hard Drive	NOBHD	1	[401-AADF]	277
Optical Drive: 8X DVD-ROM Tray Load	8DVD	1	[429-AAHS]	16

Mobile Workstation Graphics Comparison (AMD)

	AMD FIREPRO M6100	AMD FIREPRO M5100	AMD FIREPRO M4100	W4170M
ENGINE CLOCK	Up to 1100 MHz	Up to 775 MHz	670 MHz	825 MHz
MEMORY	Up to 2GB GDDR5	Up to 2GB GDDR5	Up to 2GB GDDR5	Up to 2GB GDDR5
MEMORY CLOCK	Up to 1500 MHz	1.125 GHz	1 GHz	1.125 GHz
MEMORY BANDWIDTH	Up to 96 GB/s	Up to 72 GB/s	Up to 64 GB/s	Up to 72 GB/sec
PEAK SINGLE PRECISION COMPUTE THROUGHPUT	Up to 1971 GFLOPS	992 GFLOPS	514 GFLOPS	691 GFLOPS
PEAK DOUBLE PRECISION COMPUTE THROUGHPUT	Up to 123.2 GFLOPS	62 GFLOPS	32 GFLOPS	43.2 GFLOPS
MEMORY INTERFACE	128-bit	128-bit	128-bit	128-bit
BUS INTERFACE	PCI Express 3.0 x16	PCI Express 3.0 x16	PCI Express 3.0 x8	PCI Express 3.0 x8
GRAPHICS	DirectX® 11.1	DirectX® 11.1	DirectX® 11.1	Direct® X 11.1
AMD TECHNOLOGIES	AMD Eyefinity multidisplay technology ¹ AMD Enduro™ technology ² AMD App Acceleration ³ AMD Power Management technologies ⁴ AMD HD3D technology ⁵			
AVAILABLE SYSTEMS				
HP ULTRABOOK	Zbook 17	Zbook 15	Zbook 14	
DELL PRECISION™	M6800	M4800		M2800

Mobile Workstation Graphics Comparison (AMD)

GRAPHICS FEATURES	17.3" PLATFORM			15.6" PLATFORM			
	Quadro K5100M	Quadro K4100M	Quadro K3100M	Quadro K2100M	Quadro K1100M	Quadro K610M	Quadro K510M
CPU/Mobile Platform Generation	Haswell/Shark Bay	Haswell/Shark Bay	Haswell/Shark Bay	Haswell/Shark Bay	Haswell/Shark Bay	Haswell/Shark Bay	Haswell/Shark Bay
NVIDIA® CUDA® Parallel Processor Cores	1536	1152	768	576	384	192	192
Memory Size	8GB ³	4GB	4GB	2GB	2GB	1GB	1GB
Memory Type	GDDR5	GDDR5	GDDR5	GDDR5	GDDR5	GDDR5	GDDR5
Memory Interface	256-bit	256-bit	256-bit	128-bit	128-bit	64-bit	64-bit
Memory Bandwidth	115.2GB/sec.	102.4GB/sec.	102.4GB/sec.	48.0GB/sec.	44.8GB/sec.	20.8GB/sec.	19.2GB/sec.
Max Power Consumption, TGP (Graphics Sub-System)	100W	100W	75W	55W	45W	30W	30W
OpenGL	4.5 ¹	4.5 ¹	4.5 ¹	4.5 ¹	4.5 ¹	4.5 ¹	4.5 ¹
Shader Model	5.0	5.0	5.0	5.0	5.0	5.0	5.0
DirectX	11.2 ²	11.2 ²	11.2 ²	11.2 ²	11.2 ²	11.2 ²	11.2 ²
PCI-E Generation	3	3	3	3	3	3	3
Display Port	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Precision	FP32	FP32	FP32	FP32	FP32	FP32	FP32
NVIDIA® 3D Vision® Pro	✓	✓	✓	✓	✓		
NVIDIA® Mosaic Technology	✓	✓	✓	✓	✓	✓	✓
NVIDIA® nView® Display Management Technology	✓	✓	✓	✓	✓	✓	✓
NVIDIA® Optimus™ Technology	✓	✓	✓	✓	✓	✓	✓

Desktop System Samples

Minimum Configured System from Dell



Dell Precision Tower 5810 Workstation

Starting Price.....\$1,598.67
 Instant Savings.....\$399.67

Subtotal.....\$1,199.00

As low as \$36.00 /month*

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[Discount Details](#)

My Selections

All Options

• Dell Precision Tower 5810 Workstation

Date	3/16/2015 10:30:07 PM Central Standard Time			
Catalog Number	4 Retail 04			
Catalog Number / Description	Product Code	Qty	SKU	Id
Dell Precision Tower 5810: Dell Precision Tower 5810 CTO Base	T5810C	1	[210-ACQM]	1
Processor: Intel® Xeon® Processor E5-1603 v3 (4C, 2.8GHz, 10M, 140W)	E51603	1	[338-BFJC] [412-AADM]	146
Operating System: Windows 7 Professional 64-bit English/French/Spanish (Includes Windows 8.1 Pro license)	DW17MP6	1	[619-AFIT]	11
Microsoft Application Software: Microsoft® Office Trial	13TMUI	1	[630-AABP]	1002
Video Card: NVIDIA® Quadro® K620 2GB (DP, DL-DVI-I) (1 DP to SL-DVI adapter)	K620	1	[490-BCCI]	6
E-Star : No Energy Star	NOESTAR	1	[387-BBBE]	122
Chassis Options : Dell Precision Tower 5810 425W TPM Chassis	425W	1	[329-BCGL]	116
Memory: 8GB (2x4GB) 2133MHz DDR4 RDIMM ECC	8G2R	1	[370-ABTJ]	3
HDD/Storage Controller: Integrated Intel AHCI chipset SATA controller (6 x 6.0Gb/s) - SW RAID 0/1/5/10	INTCTL	1	[403-BBGV]	9
Internal Hard Drive Configuration: C1 SATA 3.5 Inch, 1-2 Hard Drives	C1	1	[449-BBEF]	276
Raid configuration Connectivity : No RAID	NORAIID	1	[780-BBCJ]	1009
Hard Drive: 500GB 3.5" Serial-ATA (7,200 RPM) Hard Drive	500G73	1	[400-AAWR]	8

Basic Configured System from Dell



Dell Precision Tower 5810 Workstation

Starting Price\$2,593.67
 Instant Savings.....\$648.42

Subtotal.....\$1,945.25

As low as \$59.00 /month[^]

[Dell Business Credit | Apply](#)

[Discount Details](#)

My Selections

All Options

- Dell Precision Tower 5810 Workstation

Date	3/16/2015 10:57:53 PM Central Standard Time			
Catalog Number	4 Retail 04			
Catalog Number / Description	Product Code	Qty	SKU	Id
Dell Precision Tower 5810: Dell Precision Tower 5810 CTO Base	T5810C	1	[210-ACQM]	1
Processor: Intel® Xeon® Processor E5-1603 v3 (4C, 2.8GHz, 10M, 140W)	E51603	1	[338-BFJC] [412-AADM]	146
Operating System: Windows 7 Professional 64-bit English/French/Spanish (Includes Windows 8.1 Pro license)	DW17MP6	1	[619-AFIT]	11
Microsoft Application Software: Microsoft® Office Trial	13TMUI	1	[630-AABP]	1002
Video Card: AMD FirePro™ W5100 4GB (4 DP) (2 DP to SL-DVI adapters)	W5100	1	[490-BCCG]	6
E-Star : No Energy Star	NOESTAR	1	[387-BBBE]	122
Chassis Options : Dell Precision Tower 5810 425W TPM Chassis	425W	1	[329-BCGL]	116
Memory: 8GB (2x4GB) 2133MHz DDR4 RDIMM ECC	8G2R	1	[370-ABTJ]	3
HDD/Storage Controller: Integrated Intel AHCI chipset SATA controller (6 x 6.0Gb/s) - SW RAID 0/1/5/10	INTCTL	1	[403-BBGV]	9
Internal Hard Drive Configuration: C5 SATA/SSD 2.5 Inch BOOT, plus 1x 3.5 Inch C5 Hard Drives		1	[449-BBGE]	276
Raid configuration Connectivity : No RAID	NORAID	1	[780-BBCJ]	1009
Hard Drive: 256GB 2.5" Serial-ATA Solid State Drive	256SSD	1	[400-AECP]	8
2nd Hard Drive: 500GB 3.5" Serial-ATA (7,200 RPM) Hard Drive	500GSA	1	[401-AAEY]	637

Advanced Configured System from Dell



Dell Precision Tower 5810 Workstation

Starting Price\$3,107.00
 Instant Savings\$776.75

Subtotal.....\$2,330.25

As low as \$70.00 /month^

[Dell Business Credit | Apply](#)

[Discount Details](#)

My Selections

All Options

• Dell Precision Tower 5810 Workstation

Date	3/16/2015 10:50:01 PM Central Standard Time			
Catalog Number	4 Retail 04			
Catalog Number / Description	Product Code	Qty	SKU	Id
Dell Precision Tower 5810: Dell Precision Tower 5810 CTO Base	T5810C	1	[210-ACQM]	1
Processor: Intel® Xeon® Processor E5-1603 v3 (4C, 2.8GHz, 10M, 140W)	E51603	1	[338-BFJC] [412-AADM]	146
Operating System: Windows 7 Professional 64-bit English/French/Spanish (Includes Windows 8.1 Pro license)	DW17MP6	1	[619-AFIT]	11
Microsoft Application Software: Microsoft® Office Trial	13TMUI	1	[630-AABP]	1002
Video Card: NVIDIA® Quadro® K2200 4GB (2 DP, DL-DVI-I) (1 DP to SL-DVI adapter)	K2200	1	[490-BCCK]	6
E-Star : No Energy Star	NOESTAR	1	[387-BBBE]	122
Chassis Options : Dell Precision Tower 5810 425W TPM Chassis	425W	1	[329-BCGL]	116
Memory: 16GB (4x4GB) 2133MHz DDR4 RDIMM ECC	16G4R	1	[370-ABUO]	3
HDD/Storage Controller: Integrated Intel AHCI chipset SATA controller (6 x 6.0Gb/s) - SW RAID 0/1/5/10	INTCTL	1	[403-BBGV]	9
Internal Hard Drive Configuration: C5 SATA/SSD 2.5 Inch BOOT, plus 1x 3.5 Inch C5 Hard Drives		1	[449-BBGE]	276
Raid configuration Connectivity : No RAID	NORAID	1	[780-BBCJ]	1009
Hard Drive: 256GB 2.5" Serial-ATA Solid State Drive	256SSD	1	[400-AECP]	8
2nd Hard Drive: 500GB 3.5" Serial-ATA (7,200 RPM) Hard Drive	500GSA	1	[401-AAEY]	637

Desktop Workstation Graphics Comparison (Nvidia)

QUADRO DESKTOP WORKSTATION SPECIFICATIONS								
BOARD FEATURES	Quadro K6000	Quadro K5200	Quadro K5000 For Mac	Quadro K4200	Quadro K2200	Quadro K2000D	Quadro K620	Quadro K420
Memory Size	12GB GDDR5	8GB GDDR5	4GB GDDR5	4GB GDDR5	4GB GDDR5	2GB GDDR5	2GB DDR3	1GB DDR3
Memory Interface	384-bit	256-bit	256-bit	256-bit	128-bit	128-bit	128-bit	128-bit
Memory Bandwidth	288 GBps	192 GBps	173 GBps	173 GBps	80 GBps	64 GBps	29 GBps	29 GBps
NVIDIA® CUDA™ Parallel Processor Cores	2880	2304	1536	1344	640	384	384	192
Max Power Consumption	225W	150W	122W	108W	68W	51W	45W	41W
Power Connectors	2x 6-pin	1x 6-pin	1x 6-pin	1x 6-pin				
Number of slots	2	2	2	1	1	1	1	1
# Simultaneous Displays ²	4	4	4	4	4	4	4	4
Display Connectors	DVI-I DVI-D DP DP 3pin Stereo ¹	DVI-I DVI-D DP DP 3pin Stereo ¹	DVI-I DVI-D DP DP 3pin Stereo ¹	DVI-I DP DP 3pin Stereo ¹	DVI-I DP DP	DVI-I DVI-D mini-DP	DVI-I DP	DVI-I DP
ECC (Error Correcting Code)	✓ ³							
OpenGL	4.5 ⁸	4.5 ⁸	4.17	4.5 ⁸	4.5 ⁸	4.5 ⁸	4.5 ⁸	4.5 ⁸
Shader Model	5	5	5	5	5	5	5	5
DirectX	11.2 ⁹	11.2 ⁹	11.2 ⁹	11.2 ⁹	11.2 ⁹	11.2 ⁹	11.2 ⁹	11.2 ⁹
NVIDIA 3D Vision® Pro	✓	✓		✓	✓	✓	✓	✓
NVIDIA® Mosaic Technology	✓	✓		✓	✓	✓	✓	✓
Multi-Display Synchronization	<u>Quadro Sync</u>	<u>Quadro Sync</u>		<u>Quadro Sync</u>				
NVIDIA SLI® Support ⁵	✓	✓		✓				
NVIDIA® nView® Desktop Management Technology	✓	✓		✓	✓	✓	✓	✓
High-Performance Video I/O ⁶	✓	✓		✓				

Desktop Workstation Graphics Comparison (AMD)

<p>AMD FirePro W9100</p> 	<p>THE ULTIMATE WORKSTATION EXPERIENCE FOR REAL-TIME 4K</p> <ul style="list-style-type: none"> • 16GB GDDR5 memory (320 GB/s) • 2616 GCN Stream Processors • 5.24 TFLOPS single precision and 2.62 TFLOPS double precision floating point performance • DirectX® 12 and OpenGL® 4.4 • Supports OpenCL™ 2.0* • 6 x Mini DisplayPort 1.2 <p>Learn More</p>  
<p>AMD FirePro W8100</p> 	<p>TAKE YOUR PROJECTS FURTHER, FASTER BY ADDING BEST-IN-CLASS GPU COMPUTE TO YOUR WORKSTATION</p> <ul style="list-style-type: none"> • 8GB GDDR5 memory (320 GB/s) • 2560 GCN Stream Processors • 4.2 TFLOPS single precision and 2.1 TFLOPS double precision floating point performance • DirectX® 12 and OpenGL® 4.4 • Supports OpenCL™ 2.0* • 4 x DisplayPort 1.2 <p>Learn More</p>  
<p>AMD FirePro W7100</p> 	<p>THE ULTIMATE ENGINEERING AND MEDIA & ENTERTAINMENT SOLUTION</p> <ul style="list-style-type: none"> • 8GB GDDR5 memory • 1792 GCN Stream Processors • DirectX® 12 and OpenGL® 4.4 • Supports OpenCL™ 2.0* • 4 x DisplayPort 1.2a <p>Learn More</p>  
<p>AMD FirePro W5100</p> 	<p>TACKLE LARGER PROJECTS WITH 4GB OF GRAPHICS MEMORY, 4K SUPPORT AND QUAD-DISPLAY CONNECTIVITY</p> <ul style="list-style-type: none"> • 4GB GDDR5 memory (96 GB/s) • 768 GCN Stream Processors • 1.43 TFLOPS single precision and 89.2 TFLOPS double precision floating point performance • DirectX® 12 and OpenGL® 4.4 • Supports OpenCL™ 2.0* • 4 x DisplayPort 1.2a <p>Learn More</p>  
<p>AMD FirePro W4100</p> 	<p>IN A CLASS OF ITS OWN</p> <ul style="list-style-type: none"> • 2GB GDDR5 memory (72 GB/s) • 512 GCN Stream Processors • 645.1 GFLOPS single precision and 40.3 GFLOPS double precision floating point performance • DirectX® 12 and OpenGL® 4.4 • Supports OpenCL™ 2.0* • 4x Mini DisplayPort <p>Learn More</p>  
<p>AMD FirePro W2100</p> 	<p>PROFESSIONAL GRAPHICS STARTS HERE.</p> <ul style="list-style-type: none"> • 2GB DDR3 memory (28.8 GB/s) • 320 GCN Stream Processors • 403.2 GFLOPS peak single precision and 25.5 GFLOPS peak double precision floating point performance • DirectX® 12 and OpenGL® 4.4 • Supports OpenCL™ 2.0* • 2 x DisplayPort 1.2a <p>Learn More</p>