



Dell Precision Tower 3000 Series (3420)

Workstation performance and reliability in a space saving small form factor



The Dell Precision Tower 3000 Series is a fully customizable, entry workstation certified to run professional applications ideal for people who need the performance and reliability, but felt a workstation was out of their budget.

Every Dell Precision is designed around innovation, performance and reliability. We understand the importance of time and workflow for all professional creators. With this in mind we design technology with the most innovative performance technologies, and work with our software partners to test and certify all Dell Precisions, so that we maximize performance and minimize downtime.

Innovative design

The Dell Precision 3000 Tower SFF is the smallest workstation we have ever created. At 6%* smaller than its predecessor, it delivers a smaller footprint with even more performance than ever.

Powerful performance

Professional software applications and the time it takes you to render, model, and process are all key factors to your creativity. Every Dell Precision comes with the exclusive Dell Precision Optimizer installed. This unique software, which can be centrally managed using your existing System Center Configuration Manager (SCCM) console, enables users to experience increased application performance and productivity from their Dell Precision workstation by automatically adjusting system settings based on the

needs of specific professional software applications. The Dell Precision Tower 3000 Series includes the latest 6th Generation Intel® Core™ and Intel® Xeon™ processors, NVIDIA Quadro® or AMD FirePro™ professional graphics card, new NECC and ECC DDR4 memory, and models available with Thunderbolt® 3 to provide you with the performance to make the most of your time. A new addition to the entry workstation is optional PCIe SSD storage. This storage is the fastest storage available.

Outstanding reliability

The software applications that many industries use to create demand computers that are stable and reliable. Dell invests thousands of hours with Independent Software Vendors (ISV) rigorously testing our Dell Precision workstations so we can deliver a tested, and fully optimized workstation to you. We partner with companies like Autodesk, Adobe, and Solidworks and many others to ensure your Dell Precision workstations work harmoniously with your software, as well as improve the quality of technical support you will receive in the event that you need it. If you do need technical support, Dell ProSupport Plus is the most complete service and support offering in the industry.

Recommended accessories

Dell offers a complete portfolio of recommended accessories for your Dell Precision workstations. These accessories include the world's #1 Dell monitor brand, industry-specific peripherals, keyboards and mice.

Feature		Precision Tower 3000 Series (3420) Technical Specification			
Processor Options ¹	Intel® Xeon® Processor E3-1200 v5 Family; 6 th generation Intel® Core™ i7 and i5. Intel core i3 (coming soon); Intel Turbo Boost technology ⁽⁵⁾ and Intel Integrated HD Graphics on select Processors; optional vPro™ Technology				
Operating System Options ²	Windows® 10 Professional (64 bit) Windows® 10 Home (64 bit) Windows® 8.1 Professional (64-Bit) Windows® 8.1 Home (64 bit) Windows® 7 Professional (32-bit)		Windows® 7 Professional (64-Bit) Red Hat® Enterprise Linux® 7.2 (coming soon) Ubuntu Linux 14.04 NeoKylin 6.0 (China only)		
Chipset	Intel® C236 Chipset				
Memory Options ³	4 Dimm Slots; Up to 64GB 2133Mhz Non-ECC DDR4 Memory; Up to 64GB 2133Mhz ECC DDR4 Memory				
Graphics Options ³	One PCI Express® x16 Gen 3 Graphics card up to 50W				
	Entry 3D cards: AMD FirePro W4100 AMD FirePro W2100 NVIDIA Quadro K1200 NVIDIA Quadro K620 NVIDIA Quadro K420		Professional 2D cards: NVIDIA NVS 510 NVIDIA NVS 310 Intel HD Graphics 530/P530		
Storage Options ⁴	Support for up to (1) M.2 PCIe SSD and Up to (1) 3.5" SATA or (2) 2.5" SATA. Support for Intel Ready Mode technology				
	M.2 PCIe SSD Up to (1) 1TB	2.5" SATA SSD Up to (2) 512GB	2.5" SATA 7200 RPM Up to (2) 1TB 7200 RPM	3.5" SATA Up to (1) 4TB 5400 RPM Up to (1) 2TB 7200 RPM	Self Encrypting Drives 500 GB 7200 RPM or 512GB 2.5" SSD
Storage Controller	Integrated: Intel Rapid storage Controller 12.0 supporting SATA 6Gb/s and host based RAID 0/1				
Communications	Integrated: Intel Ethernet Connection I219-LM 10/100/1000 Optional: Intel 10/100/1000 PCIe Gigabit Networking card Optional: Wireless 802.11ac + Bluetooth 4.1 card				
Audio Controller	Integrated Realtek ALC3234 High Definition Audio Codec (2 Channel)				
Speakers	Internal Speaker; Optional Dell 2.0 stereo speaker systems available and Dell sound bar for select flat-panel displays				
Add-in cards	Optional Thunderbolt 2 PCIe Card (coming soon) Optional 1394 a/b PCIe Card (3 Ports – 2x 1394b + 1x 1394a)			Optional Serial Port PCIe Card Optional Parallel Port PCIe Card	
I/O Ports	Front 2 – USB 2.0 2 – USB 3.0 1 – Universal Audio Jack 1 – Internal SD Card reader (Optional)		Internal 2 – USB 2.0 3 – SATA 6Gb/s		Rear 2 – USB 2.0 4 – USB 3.0 2 – PS2 2 – DisplayPort 1 – HDMI 1 – RJ45 Network Connector 1 – Serial 1 – Audio Line out 1 – VGA Connector (Optional)
Chassis	HxWxD: 11.42" x 3.65" x 11.5" (29cm x 9.26cm x 29.2cm) Bays: (1) internal 3.5" bay - supports (1) 3.5" or (2) 2.5" drives ; (1) external slimline optical bay Slots: (1) half height PCIe x16 Gen3; (1) half height PCIe x4 Gen 3; (1) M.2 (22x80mm) Power Supply: 240W 92% efficient PSU (80PLUS Platinum Certified) Energy Star Compliant; 180W 85% efficient PSU (80PLUS Bronze Certified) Energy Star Compliant				
Storage devices	Optional: 1 optical drive: DVD-ROM; DVD+/-RW; Internal SD Card reader Option				
Security Options ⁵	Trusted Platform Module ⁶ TPM 1.2 (TPM 2.0 - firmware upgradable) Dell Data Protection Security Tools, Dell Data Protection Encryption, Dell HW Crypto Accelerator, Microsoft Windows Bitlocker, Local HDD data wipe via BIOS ("Secure Erase"), Encryption - SED HDD (Opal FIPS), Chassis lock slot support, Lockable Port Cover, Chassis Intrusion Switch, D-Pedigree (Secure Supply Chain Functionality), Setup/BIOS Password, Optional Smart Card keyboards, Intel® Trusted Execution Technology, Intel® Identity Protection Technology, Dell Secure Works, BIOS support optional Computrace ⁷ , Intel Software Guard extensions				
Systems Management ⁶	Dell Client Command Suite; Out of Band management support via vPro				
Regulatory & Environmental	ENERGY STAR® configurations available including 80 PLUS® Platinum power supplies; EPEAT® registered (see epeat.net for specific registration rating/status by country); China CECP; GS Mark. For a complete listing of declarations & certifications, see Dell's regulatory & compliance homepage at dell.com/regulatory_compliance				
Warranty & Support Services ⁷	3-Year Limited Hardware Warranty and 3-year NBD On-Site Service after Remote Diagnosis Optional: Dell ProSupport is designed to rapidly respond to your business's needs, help protect your investment and sensitive data, and provide enhanced proactive support services to help reduce risk and complexity within your IT environment				
TAA	TAA Configurations Available				

Some options available only in select regions; ISV certification applies to select configurations; ¹Intel Turbo Boost mode only available on Xeon, Core i7 and Core i5 processors. Intel Integrated HD graphics only available with select processors; ²A 64-bit operating system is required to support 4GB or more of system memory; . ³GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less; ⁴GB means 1 billion bytes and TB equals 1 trillion bytes; significant system memory may be used to support graphics, depending on system memory size and other factors; ⁵Computrace is not a Dell offer. Certain conditions apply. For full details, see terms and conditions at www.absolute.com/en/about/legal/agreements. ⁶Systems Management Options: Intel® vPro Technology - Fully vPro-capable at point of purchase; the vPro systems management option requires vPro processors. Includes support for Intel Advanced Management Technology (AMT) 9.x. Intel® Standard Manageability - Fully enabled at point of purchase, the Intel Standard Management option is a subset of the AMT features. ISM is not upgradeable to vPro technology post-purchase. No Out-of-Band Systems Management - This option entirely removes Intel out of band systems (OOB) management features. The system can still support in band management. OOB management support through AMT cannot be upgraded post-purchase. ⁷Availability and terms of Dell Services vary by region. For more information, visit Dell.com/servicecontracts/global. Limited Hardware Warranty available by writing Dell USA LP, Attn: Warranties, One Dell Way, Round Rock, TX 78682 or see www.dell.com/warranty; Onsite Service after Remote Diagnosis: Remote Diagnosis is determination by online/phone technician of cause of issue; may involve customer access to inside of system and multiple or extended sessions. If issue is covered by Limited Hardware Warranty (www.dell.com/warranty) and not resolved remotely, technician and/or part will be dispatched, usually within 1 business day following completion of Remote Diagnosis. Availability varies. Other conditions apply. Copyright 2015 Dell Inc. All rights reserved. Venue is a trademark of Dell Inc. Intel and Xeon are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States of America and other countries. Microsoft, and Windows are trademarks or registered trademarks of Microsoft Corporation in the U.S. and other countries. . Other trademarks or trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell disclaims proprietary interest in the marks and names of others. Reproduction in any manner whatsoever without express written permission from Dell Inc. is strictly forbidden.