



The power to do more

TKOEDucation
Technology Solutions



Dell™ OptiPlex™ 990 desktop

The premier OptiPlex 990 is Dell's most powerful and flexible desktop solution designed for best-in-class performance and collaboration, while enabling business-class control. It delivers premier technology that helps simplify systems management and security and is available in four different chassis sizes that blend seamlessly into office environments and respect our planet.

New flexible design

The completely redesigned form factors are amongst the smallest within their categories. The mini-tower, desktop and small form factor chassis have been optimized to help maximize desk space and ensure the systems integrate seamlessly in virtually any office environment. The Dell OptiPlex 990 also shares the same visual identity as OptiPlex 790 and 390 to offer a more consistent look across the OptiPlex portfolio and two All-in-One stands enable deployment as a single device with up to 24" displays. Accessibility and serviceability are easy thanks to the convenient side-latch mechanism which makes access to key system components for upgrades and services fast and easy. The form-factor flexibility has also been designed with our planet in mind. The systems all have a minimum of 10% post-consumed recycled plastic enclosure and offer highly efficient power supplies options. Starting with OptiPlex 990 small form factor and with Dell also provides select brominated flame retardant free (BFR-free) and polyvinyl chloride free (PVC-free) configurations¹² and recyclable packaging. By using post-consumed recycled plastic content in the chassis of more models, the new generation of OptiPlex is Dell's most environmentally responsible commercial desktop offering.

Premier performance and productivity

The OptiPlex 990 is the most powerful OptiPlex ever. It equips your workforce with great productivity tools such as the advanced 2nd generation Intel® Core™ i7 vPro™ processor featuring generous high-speed memory options and support for up to four simultaneous video displays across small-form factor, desktop and minitower chassis with dual PCI-express slots. The OptiPlex 990 also supports flexible desktop virtualization deployment models to help users get up and running fast and have their data centrally stored to avoid downtime. OptiPlex 990 supported virtualization solutions range from virtual remote desktop control to on-demand desktop streaming or client hosted virtualization.

Premier-class control

The OptiPlex 990 integrate the latest Intel® vPro™ remote management technology, along with the Dell Data Protection security capabilities such as one-touch preset compliance policy templates, flexible encryption and single solution for system disk as well as removable medias that work in your unique disk environment. A premier-class range of security and management options which allows security and remote control configurations to meet large organizations unique needs and challenges. Dell KACE system management appliances are fully-compatible with the OptiPlex 990 desktops enabling easy deployment of remote manageability and maintenance simplification. The OptiPlex technological assets are backed with proven professional IT services and support worldwide, ranging from deployment to maintenance or web solutions to help IT to simplify their daily tasks. The OptiPlex platform commitment to stability, long-lifecycle and managed transitions also help ensure IT to save time and money.

Dell OptiPlex 990

Designed to deliver best-in-class productivity and business-class control for great return on investment

OptiPlex 990 Technical Specifications					
Processors ¹	Intel® 2nd Generation Core™ i7, i5, i3 Processors. Intel vPro™ Technology available on select processors				
Chipset	Intel® Q67 Express Chipset				
Operating System Options	Microsoft® Windows 7® Home Basic (32/ 64 bit), Microsoft® Windows 7® Home Premium (32/64 bit), Microsoft® Windows 7® Professional (32/64 bit), Microsoft® Windows 7® Ultimate (32/64 bit) Windows Vista® Home Basic SP2 (32/64 bit), Windows Vista® Business SP2 (32/64 bit), Windows Vista® Ultimate SP2 (32 bit) Ubuntu® Linux (select countries); FreeDOS for N-series				
Video ²	Integrated Intel® HD Graphics 2000 [with iCore Dual/Quad core class CPU-GPU combo]; optional 1GB AMD RADEON HD 6670 (MT only); optional 1GB AMD RADEON HD 6450; optional 512MB AMD RADEON HD 6350				
Memory ³	Up to four DIMM slots; Non-ECC dual-channel 1333MHz DDR3 SDRAM, up to 16GB				
Networking	Integrated Intel® 82579LM Ethernet LAN 10/100/1000; optional Broadcom® NetXtreme® 10/100/1000 PCIe card; optional Dell Wireless 1520 PCIe (MT, DT, SFF); optional half-mini PCIe (USFF) WLAN card (802.11n)				
I/O Ports	10 External USB 2.0 ports and 1 Internal USB 2.0 (MT & DT only); 1 Serial; 1 RJ-45; 1 VGA; 1 DisplayPort; 2 PS/2; 2 Line-in (stereo/microphone), 2 Line-out (headphone/speaker), optional Parallel/2nd Serial PCIe card (MT), optional 2 nd Serial PCIe card (DT & SFF), optional 1394a PCI card (MT & DT); optional USB 3.0 PCIe card				
Removable Media Options	Blu-ray Writer Drive; DVD+/-RW; DVD-ROM; Dell 19 in 1 Media Card Reader (MT & DT only)				
Hard Drives ⁴ Options	3.5" Hard Drives: up to 1TB 7200 RPM SATA 3.0Gb/s; 2.5" Hard Drives: up to 500GB 7200 RPM SATA 3.0Gb/s; 500GB Hybrid; 320GB 7200 RPM Opal SED, 128GB Solid State Drive RAID 0 & 1 support on select configurations; Supports Dell's Flexible Computing Solution diskless option				
Chassis		Minitower (MT)	Desktop (DT)	Small Form Factor (SFF)	Ultra Small Form Factor (USFF)
	Dimensions (H x W x D) Inches/(cm)	14.2 x 6.9 x 16.4 / (36.0 x 17.5 x 41.7)	14.2 x 4.0 x 16.1 / (36.0 x 10.2 x 41.0)	11.4 x 3.7 x 12.3 / (29.0 x 9.3 x 31.2)	9.3 x 2.6 x 9.4 / (23.7 x 6.5 x 24.0)
	Min. Weight (lbs/kg)	19.55 / 8.87	16.67 / 7.56	12.57 / 5.70	7.20 / 3.27
	Number of Bays	2 internal 3.5" 2 external 5.25"	1 internal 3.5" 1 external 5.25"	1 internal 3.5" 1 external 5.25" (slimline)	1 internal 2.5" 1 external 5.25" (slimline)
	Expansion Slots	1 full height PCIe x16 1 full height PCIe x16 (wired x 4) 1 full height PCIe x1 1 full height PCI	1 half height PCIe x16 1 half height PCIe x16 (wired x 4) 1 half height PCIe x1 1 half height PCI	1 half height PCIe x16 1 half height PCIe x16 (wired x 4)	1 miniPCIe connector
	Power Supply ⁵ Unit (PSU)	Standard 265W PSU or optional 265W up to 90% Efficient PSU; Energy Star 5.0 compliant, Active PFC	Standard 250W PSU or optional 250W up to 90% Efficient PSU; Energy Star 5.0 compliant, Active PFC	Standard 240W PSU or optional 240W up to 90% Efficient PSU; Energy Star 5.0 compliant, Active PFC	200W up to 90% Efficient PSU, ENERGY STAR® 5.0 compliant, Active PFC
Peripherals Options	Monitors: Dell Entry Standard and Widescreen Flat Panel Analog: Dell E170S, E190S, E1709W, E1910, E1911, E2011H, E2210H, E2211H, E2311H Dell Professional Digital Standard and Widescreen Flat Panel: Dell P170S, P190S, P1911, P2011H, P2210, P2211H, P2311H, P2411H Dell UltraSharp Digital Standard and Widescreen Flat Panel, Adjustable Stand: Dell 2007FP, U2211H, U2311H, U2410, U2711, U3011				
	Keyboards: Dell USB Entry Keyboard, Dell Multimedia Pro Keyboard, Dell Smartcard Keyboard				
	Mouse: Dell USB Optical Mouse, Dell Laser Mouse				
	Audio Speakers: Internal Dell Business audio speaker, Dell AX210 2.0 and AY410 2.1 Desktop Speakers; Dell AX510 and AX510PA Sound Bar Speakers				
Security	Trusted Platform Module ⁶ (TPM) 1.2, Dell Data Protection / Access, Chassis lock slot support, optional Chassis Intrusion Switch, Setup/BIOS Password, I/O Interface Security, optional Smart Card keyboards, Intel® Trusted Execution Technology, BIOS support for optional Computrace ⁷				
Systems Management Options ⁸	Intel® vPro Technology (iAMT 7.x); Intel® Standard Manageability; No Out of Band Systems Management				
Environmental, Ergonomic, & Regulatory Standards	Environmental Standards (eco-labels): Energy Star 5.0, EPEAT GOLD, CECP, TCO 3.0, WEEE, Japan Energy Law, Japan Green PC, South Korea Eco-label, EU RoHS, China RoHS, Blue Angel Other Environmental Options: Dell Energy Smart settings; Carbon Off-set; System Recycle (Asset Recovery Service)				
Warranty	Limited Hardware Warranty ⁹ ; Standard 3-year Next Business Day On Site Service after Remote Diagnosis ¹⁰ (3-3-3); Optional 3-year Dell ProSupport™ for IT; 4 year and 5 year service and support options ¹¹				

Your premier-class desktops at dell.com/optiplex

***Important Information:** 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 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. For copy of Ltd Hardware Warranty, write Dell USA LP, Attn: Warranties, One Dell Way, Round Rock, TX 78682 or see www.dell.com/warranty.

- Offering may vary by region.
- System Memory and Graphics: Significant system memory may be used to support graphics, depending on system memory size and other factors.
- 4GB or Greater System Memory Capability: A 64-bit operating system is required to support 4GB or more of system memory.
- Hard Drive: GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.
- PSU: This form factor utilizes a more efficient Active Power Factor Correction (APFC) power supply. Dell recommends only Universal Power Supplies (UPS) based on Sine Wave output for APFC PSUs, not an approximation of a Sine Wave, Square Wave, or quasi-Square Wave (see UPS technical specifications). If you have questions please contact the manufacturer to confirm the output type.
- TPM: TPM is not available in all regions.
- Computrace: Not a Dell offer. Certain conditions apply. For full details, see terms and conditions at www.ijackforlaptops.com.
- Systems 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) 7.1x.
 - 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.
- Limited Hardware Warranty. For copy of Ltd Hardware Warranty, write Dell USA LP, Attn: Warranties, One Dell Way, Round Rock, TX 78682 or see www.dell.com/warranty.
- Next Business Day 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.
- Dell Services: Availability and terms of Dell Services vary by region. For more information, visit www.dell.com/servicesdescriptions.
- OptiPlex 990 small form factor (coming in May in US, UK and Japan) is brominated flame retardant free (BFR-free) and polyvinyl chloride free (PVC-free); meeting the definition of BFR-/PVC-free as set forth in the INEM Position Statement on the Definition of Low-Halogen Electronics (BFR-/CFR-/PVC-free). Plastic parts contain less than 1,000 ppm (0.1%) of bromine (if the Br source is from BFRs) and less than 1,000 ppm (0.1%) of chlorine (if the Cl source is from CFRs or PVC or PVC copolymers). All printed circuit board (PCB) and substrate laminates contain bromine/chlorine total less than 1,500 ppm (0.15%) with a maximum chlorine of 900 ppm (0.09%) and maximum bromine being 900 ppm (0.09%).



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