DELLTechnologies

OptiPlex 3090 Ultra and 7090 Ultra

A modular all-in-one experience like you've never seen

REVIEWER'S GUIDE

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The desktop of the future

OptiPlex continually reimagines the desktop experience with over 27 years of commercial desktop leadership. But for OptiPlex, "desktop doesn't define us." We are the trusted name to deliver innovative and reliable solutions and help our customers get work done. Expanding the first-of-its kind, modular all-in-one form factor line up, Dell is proud to introduce the OptiPlex 7090 and 3090 Ultra. Ultra combines the sleekness of an All-in-One with the flexibility of a desktop in a beautiful zero footprint solution. The compact PC module is hidden inside a custom stand which now supports an even wider choice of monitors to create a truly innovative and space-saving All-in-One solution with minimal cabling.

Building upon its award-winning design, this year brings more personalized technology with the addition of a cost-effective 3000 Series and a more powerful and intelligent 7000 Series Ultra. Adding more accessible configurations expands the market reach of the next generation of OptiPlex Ultra across differentiated industries and use cases.

The OptiPlex 7090 Ultra is the world's most flexible modular all-in-one experience for a streamlined workspace and increased productivity with built-in AI from Dell Optimizer[1]

Evolving workspaces: Conventional desktops (DT) and All-in-Ones (AIO) separately address the needs for space savings and general computing in today's fixed workspaces. An AIO is sleek and space efficient but since the display is integrated with the PC, it lacks the ability to manage the PC and display separately, thereby increasing the TCO for the customer. Traditional DTs provide flexible deployment configurations but are often considered too bulky with numerous unsightly cables to connect. Marrying the beautiful aesthetics and minimal cabling of an All-in-One with the upgradability, serviceability, and flexibility of a traditional desktop, Ultra creates the perfect solution for the modern workspace.

OptiPlex Ultra answers the demand for a modular desktop solution with all the benefits of a conventional Desktop PC in an All-in-One footprint.

Feature Overview

OptiPlex 3090 Ultra and 7090 Ultra

A new way to desktop

Customer-led innovation inspires the innovative OptiPlex Ultra, solving real commercial customer pain points:

85% Desire the ability to upgrade displays separately from the computer[2]

54% Cite messy cabling and clutter as a challenge when deploying PCs[3]

52% Identify space limitations as a concern when choosing and deploying PCs[3]

Insights: While All-in-Ones offer an attractive, compact solution, many customers desire more display flexibility for their desktop solution. This includes both the freedom to choose which brand and size of display to use, as well as the display refresh timing. Many commercial customers require far less frequent upgrades to the display than the compute device, making the all-in-one a less viable option for fixed computing. Now users can have this flexibility and further customize their experience with the right OptiPlex Ultra for the job.

Our customers need a desktop that is neat and compact, but do not want to compromise on flexibility and performance.

Feature Overview
OptiPlex 3090 Ultra and 7090 Ultra

DESIGN

Work from anywhere: This year, work landscapes around the world changed drastically, moving face-to-face interactions online and the office back home. This shift has required rethinking the way employees work best, stay productive and collaborate remotely. The seamless design and easy deployment of OptiPlex Ultra make it the ideal solution to work from anywhere. The new, intelligent OptiPlex 7090 Ultra is great for power users, while the OptiPlex 3090 Ultra is a cost-effective solution for small businesses and educators.

Modern modularity: Ultra's unique design features the modularity of a desktop that allows each solution element to be upgraded separately, coming together for something unexpected and visually pleasing. The compact PC module is hidden inside a custom stand, which supports a wide choice of monitors to create a truly innovative and space-saving all-in-one solution.

Ultimate choice: The design ethos of OptiPlex Ultra centers around user choice for a personalized workflow. It is uniquely compatible with a wide range of peripherals without vendor lock-in. For a consistent look, feel and ultimate user experience, Ultra works seamlessly with a thoughtfully designed ecosystem of accessories from Dell.

EXPERIENCE

Smarter, faster end user experiences: OptiPlex Ultra provides the right technology for users to get productive faster and stay in a productive workflow. In a recent study, we saw that 77% of technology decision-makers think improving employee experience is either critical or a high priority.[4] Delivering a solution that provides a clean, aesthetically pleasing workspace, Ultra elevates the overall user experience. OptiPlex 7090 and 3090 Ultra now offer improved personalized user experiences, with focused innovation in key categories.

OPTIPLEX 7090 ULTRA

Continuous workflow and productivity:
- Intel® 11th Gen mobile processors from Core® i3-i7 with optional Intel® vPro,™ running at 28W and featuring Intel® Iris® Xe graphics up to 96EUs
- Dell Optimizer ExpressResponse utilizing built-in AI to open and run users' top applications faster[5]
- New Height Adjustable Stands provide support for both Dell and 3rd party VESA-compatible monitors, with easier deployment and more intuitive cable management

- New Large Height Adjustable Stand provides support for 30"-40" monitors. Ultra is the only modular all-in-one PC solution that supports up to 40" monitors[6]
- OptiPlex Ultra is the only modular desktop solution capable of supporting up to 4 displays natively through Multi-Streaming Technology (MST)[7] without the need for a discrete graphics card
- Dual M.2 SSD storage with RAID option for fast, secure storage performance

Connected technology and connectivity:
- Dell Optimizer ExpressConnect to prioritize bandwidth for uninterrupted conferencing[8]
- Added Thunderbolt 4 port for faster graphic card and peripheral connections, including Thunderbolt docking
- Added DisplayPort 1.4 for more standardized connectivity, eliminating the need for unique cables
- (1) USB-C 3.2 Gen 2 port with DisplayPort 1.4 signal support for a single power cable solution with USB-C monitors capable of providing 90W power delivery
- (3) USB-A 3.2 Gen 2 ports for additional standard peripherals

Collaboration:
- New Dell 24" FHD, 27" QHD and 34" QHD wide Conferencing Monitors featuring 90w USB-C power delivery, integrated speakers, microphone, and pop-up IR webcam for a true modular all-in-one experience
- Intelligent Audio enhances audio quality based on user environment through Dell Optimizer
- Intel® Unite for smarter, faster, and more secure video conferencing

OPTIPLEX 3090 ULTRA

Continuous productivity:
- Intel® 11th Gen mobile processors from Celeron® to Core™ i5, running at at 15W and featuring Intel® Iris® Xe graphics up to 80EUs
- New Height Adjustable Stands provide support for both Dell and 3rd party VESA-compatible monitors with easier deployment and more intuitive cable management
- New Large Height Adjustable Stand provides support for 30"-40" monitors. Ultra is the only modular all-in-one PC solution that supports up to 40" monitors[6]
- OptiPlex Ultra is the only modular desktop solution capable of supporting up to 4 displays natively through Multi-Streaming Technology (MST)[7] without the need for a discrete graphics card

Connected technology / connectivity:
- (4) USB-A 3.2 Gen 2 ports
- (1) USB-C 3.2 Gen 2 port with DisplayPort 1.4 signal support for a single power cable solution with USB-C monitors capable of providing 65W power delivery
- Plus one DisplayPort 1.4, RJ-45, power AC and audio jack
- Perfect for Dell Hybrid Client customers providing an extremely cost-effective solution including Intel® Celeron® processors, Ubuntu® OS and low cost storage options

Collaboration:
- New Dell 24" FHD, 27" QHD and 34" QHD wide Conferencing Monitors featuring 90W USB-C power delivery, integrated speakers, microphone, and pop-up IR webcam for a true modular all-in-one experience

Confident customer experiences: We believe technology that focuses on the customer wins the day. OptiPlex Ultra's beautiful and hassle free design creates a lasting first impression. For a fully interactive, welcoming experience, the Ultra PC mounted to a sleek, nimble Dell display arm with a collaboration monitor promotes more productive engagements between employees and customers while working together.

Low touch IT experiences: Not only users, but IT will benefit from OptiPlex Ultra's modular design. Research shows that 80% of IT time is spent on routine maintenance and support, giving them limited time to solve the increasing complexity of the end user environment.[4] OptiPlex Ultra's tool-less, modular design makes tech refresh planning a breeze with solution elements that are easy to deploy, service or swap independently, at any time.

OptiPlex Ultra is the no-compromise modular all-in-one solution designed to delight end users and IT.

Feature Overview

OptiPlex 3090 Ultra and 7090 Ultra

INNOVATION

Breaking the mold: Many organizations place a high value on space-saving designs, while no longer requiring extensive expansion capabilities and large legacy features such as optical drives and 2.5" hard drives. On the technology side, new mobile Intel® CPU's deliver ample performance for a majority of desk-centric workers. Together these trends have allowed the OptiPlex Ultra to literally "hide the PC in plain sight" creating a super compact, full performance PC.

Mobile architecture: 11th Gen Intel® Core™ Mobile processors based on Intel's Tiger Lake architecture enable the streamlined layout of the OptiPlex 3090 and 7090 Ultra PC motherboards. For maximum performance, 7090 Ultra operates the CPU at the highest configurable wattage of 28W Thermal Design Power (TDP) setting, while the 3090 Ultra operates at 15W TDP similar to a standard notebook computer. Additionally, Intel's new Iris® Xe graphics provides integrated graphics performance at or above discrete levels.

Patented design: The patented design of OptiPlex Ultra identifies the solution as "a flexible compute module and mounting options enabling a zero-footprint solution with mainstream performance that can be used across most commercial desktop use cases."

Modular by design: OptiPlex Ultra embodies the go-forward strategy of Dell, delivering modular solutions to empower ultimate choice for end users and IT. As organizations shift to more agile IT models, OptiPlex Ultra is the ideal solution that helps our customers ready themselves for whatever comes next with more choice and flexibility deploying modern client workplaces where desk space is premium and user experiences are a priority.

OptiPlex 3090 Ultra and 7090 Ultra

FLEXIBLE MANAGEMENT

One for many: Ultra provides the opportunity for organizations to standardize on one compute solution with many configurations. Create a uniform, open workspace for multi-users, a collaborative huddle space for small teams or a multi-monitor set up for the power user. VESA-mounting options are ideal for check-in kiosks or reception areas.

Investment maximization: Ultra offers peace of mind with its unique level of ecosystem compatibility. Get the entire value out of existing monitors when paired with the world's most compatible, fully modular zero footprint desktop solution.[9] The next generation Ultra is backwards compatible with predecessor ecosystem for consistency and stability.

Choose your view: Offering excellent multi-monitor support, this one compute device can power up to four monitors at once. The VESA mounting solutions respond to users' needs across multiple use cases and deployment scenarios with the Height Adjustable Stands, the Dell MSA20 Arm and Offset VESA mount or the wall mount. Providing optimal screen flexibility, Ultra adapts to various workstyles and brings a rich front of screen experience to end users, with the capability of supporting up to 5k monitors.

NEAR CABLE-FREE SOLUTION

Jumpstart productivity with the ease of USB-C: For a clean and future-ready workspace, Dell recommends the Ultra PC module matched with a Dell USB-C Monitor, an OptiPlex Ultra Height Adjustable Stand and a short 0.6m cord for a minimal cabling solution. Maximize screen performance and add three more monitors via USB-C using DisplayPort MST (multi-streaming technology) for multi-monitor productivity.

Work confidently: The Power Button Sync available on new Dell USB-C Monitors provides a seamless boot up and wake-on-demand experience utilizing the monitor power button. The system can also be powered with any third-party USB-C display that meets the USB-C power delivery specification and provides power delivery of either 65W for the 3090 or 90W with the 7090.

Ultimate choice: If a single power cable is not a priority, other monitors with varied connectivity options can be used with the OptiPlex Ultra. This configuration requires a Dell Power Adapter to be connected to the Ultra PC module.

Built-in cable management: The OptiPlex Ultra PC solution is designed with smart cable management options including short cables that require no extra tie up. The new stands now feature more intuitive cable management for faster set up. Enjoy a clean and neat workspace – free of the distractions of messy cables.

BETTER TOGETHER

Many paths to productivity: More than ever, customers need the flexibility to choose technology that is compatible across complex enterprise environments. Valuing user choice to complete the desktop experience, OptiPlex Ultra is designed for compatibility with many third-party peripherals.

By and from Dell: Thoughtfully designed accessories for Ultra create the space for users to work more easily and comfortably with personalized configurability. Eliminate the guesswork with the right set of tools, designed to work seamlessly together for any workstyle.

For the ultimate user experience with Ultra, choose purpose-built accessories only from Dell.

World's #1 monitor company[10]: Pair Ultra with Dell USB-C Monitors with a range of sizes and resolutions. These monitors have seamless, ultrathin bezel designs, eye comfort features and rich, expansive views. Choose from Dell's extensive monitors portfolio including specialty displays with multi-PC capabilities, touch or video conferencing certifications. The Ultra PC module natively supports up to 4 monitors with multi-streaming technology (MST). Boost user productivity by up to 21%[11] with a dual monitor setup by daisy-chaining two Dell monitors to the Ultra PC module. Fully optimize and organize screen space by using the Dell Display Manager, which provides multi-monitor spanning, personalized display templates and application management. Download Dell Display Manager at www.dell.com/ddm.

Enable a true modular AIO experience by pairing Ultra with Dell Video Conferencing Monitors: Transform your virtual experience with multiple video conferencing monitor options. These monitors are the world's first video conferencing monitors certified for Microsoft Teams.[12] Redefine collaboration with advanced technologies such as a pop-up 5MP IR camera, dual 5W speakers, noise-canceling mic and an always-on, built-in low blue light screen feature with ComfortView Plus.[13] These sleek, stylish displays pair well with the new Ultra Standard or Large Height Adjustable Stands and can power your PC with a single power cord transmitting audio, video, power and data all in one.

Desk agility: To support dual monitor productivity, Dell recommends the OptiPlex Ultra Offset VESA Mount and either the Dell Dual Monitor Arm – MDA20 or Dell Dual Monitor Stand - MDS19. For enhanced adjustability and more desk space for single monitor users, use the Dell Single Monitor Arm – MSA20 with the Offset VESA mount and a VESA-compatible monitor.

Elevate engagement and collaboration: With a few painless steps, it's simple to install the Ultra PC module with the wall mount and a choice of Dell Large Format Monitors, ranging from 55in. – 86in. Take community messaging and team collaboration to the next level with fully interactive 4K touch monitors. They are VESA compatible, making them easy to deploy in any collaborative workspace.

Eco-conscious packaging and design: To avoid throwing away an extraneous monitor stand when the monitor head is paired with one of the Ultra custom stands, Dell offers Without Stand options for some of our most popular monitors. Choose one of these Monitors Without the Stand options to pair with the Ultra stand for the most eco-friendly solution. This solution reduces the overall carbon footprint through the use of Styrofoam-free packaging and meeting the latest regulatory and environmental standards. OptiPlex 3090 and 7090 Ultra are EPEAT Gold and ENERGY STAR qualified (on select configurations).

OptiPlex 3090 Ultra and 7090 Ultra

FLEXIBLE STANDS & MOUNTS

Large Height Adjustable Stand: Alter your monitor's height, tilt, and orientation for optimal comfort and productivity with this stand that can be used with up to 40in / 101.6cm VESA-compatible monitors. Experience fast and tool-less assembly when paired with Dell Monitors featuring Dell Quick Release.

Height Adjustable Stand: Alter your monitor's height, tilt, and orientation for optimal comfort and productivity with this stand that can be used with up to 27in / 68.58cm VESA-compatible monitors. Experience fast and tool-less assembly when paired with Dell Monitors featuring Dell Quick Release.

Fixed Stand: This VESA-compatible stand supports tilt and manual height adjustability for up to 24in / 60.96cm monitors. Both stands feature built-in cable management and lockable covers for physical security.

Offset VESA Mount: Support up to 40in / 101.6cm VESA-compatible monitors when paired with the Dell Single Monitor Arm – MSA20. The Offset VESA mount features a VESA adapter plate to support third-party arms and mounts for added flexibility.

Wall Mount: This wall bracket can be used for mounting the OptiPlex Ultra chassis onto a wall or side partition. It includes a cable cover to secure and manage cables.

OptiPlex 3090 Ultra and 7090 Ultra

INTUITIVE, RIGHT SIZED PERFORMANCE

Tiny yet mighty: The innovative use of 11th Gen Intel® Core™ vPro mobile processors based on Intel's Tiger Lake architecture allow for the streamlined layout of the motherboard. Experience full performance with options up to quad-core Intel® Core™ i7 processors running at 28W for 7090 and up to Intel® Core™ i5 processors running at 15W for the 3090 Ultra, both with Intel® Iris® Xe graphics.

Power Consumption: Using a lower wattage Intel® mobile CPU, the OptiPlex Ultra provides significant reductions in power consumption compared to traditional desktop PC's.

Smart thermals and acoustics: While Ultra's high-performance and scalability require a fan, its vertical design benefits from the "thermal chimney effect" to stay cool. A large diameter, thin fan spins at low speeds enabling near silent operation during office applications and typical intense CPU workloads.

Flexible feature set: While the OptiPlex Ultra is small and offers the latest SSD, USB-C & wireless technology, it still provides the required features of a Commercial PC with no compromise.

SMART TECHNOLOGY

- **Easy PC component upgrades** as the CPU is the only part soldered down to the motherboard

- **Clutter-free wireless connectivity** with internal Wi-Fi antenna to compliment Ultra's compact design, eliminating the need for an external puck or cable drop

- **Faster streaming at greater distances** with QualComm® Wi-Fi 5 or Intel® Wi-Fi 6

- **High capacity, upgradable storage** in a small, cost-effective form factor with M.2 2230 Solid State Drives (SSD) on both the 3090 and 7090 Ultra. The 3090 supports dual storage with an additional SATA hard drive. OptiPlex 7090 Ultra offers either an additional SATA hard drive or M.2 2280 Solid State Drive (SSD) with optional RAID for faster and even more reliable storage performance.

- **Expandable memory** up to 64GB of 3200MHz DDR4 in 2 SoDIMM slots

- **High-speed expandability outside of the system** with USB 3.2 Gen 2 technology and Thunderbolt 4 (7090 Ultra only) for fast external peripherals reducing the need for larger PC's with expansion slots and bays

- **Connect to more peripherals** by leveraging the USB hubs of Dell USB-C monitors or connect the Ultra to a dock for additional expandability

LOW TOUCH IT

Easy serviceability: Ultra's tool-less chassis and Height Adjustable Stands lend quick access to internal components for fast service and deployments. Easily keep spare units of the ultra-compact PC module on hand to minimize downtime for users during servicing or upgrades. When it's time for a refresh, simply remove the PC module out of the stand and snap in a new one.

Physical Security: As PC's get smaller, physical security is becoming more vital for IT investment protection. Answering this need, the Ultra solution is built with multiple hardware security options. The PC Module has a K-lock slot and security screw, great for securing the unit when VESA-mounted. Ultra's custom display stands provide secure cable management and enhanced security via a K-lock and security screw. The chassis intrusion switch in the PC module sends out an SCM notification in case of system tampering.

Recommended Accessories

STANDS AND MOUNTS

OPTIPLEX ULTRA LARGE HEIGHT ADJUSTABLE STAND

Alter your display's height, tilt, and orientation for optimal comfort and productivity with this stand that can be used with up to 40in./101.6cm VESA-compatible monitors.

OPTIPLEX ULTRA HEIGHT ADJUSTABLE STANDS

Alter your display's height, tilt, and orientation for optimal comfort and productivity with this stand that can be used with up to 27in./68.58cm VESA-compatible monitors

OPTIPLEX ULTRA FIXED STAND

This VESA compatible stand offers height adjustability for up to 24in./60.96cm monitors.

OPTIPLEX ULTRA OFFSET VESA MOUNT

Enables the Ultra to be mounted to the back of an E Series monitor or with a Dell Monitor Arm. Supports up to 40"/101.6cm VESA-compatible monitors.

OPTIPLEX ULTRA WALL MOUNT BRACKET

This wall bracket can be used for mounting the Optiplex Ultra chassis onto a wall. It includes a cable cover to secure and manage cables.

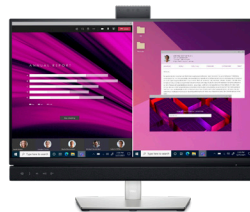### DELL SINGLE MONITOR ARM - MSA20

Keep your desk clutter free with this world's first monitor arm that offers swivel angle adjustment with a flip of a switch* and can also be easily assembled and installed. For optimal use with OptiPlex Ultra Offset VESA mount. This solution is great for use with touch displays in kiosk or check-in environments.

PURPOSE-BUILT SOLUTIONS

DELL ULTRASHARP 34 CURVED USB-C HUB MONITOR - U3421WE

Discover immersive productivity on this stunning 34" WQHD curved monitor with wide color coverage and extensive connectivity including RJ45, USB-C and quick access front ports.

DELL 24 VIDEO CONFERENCING MONITOR I C2422HE

Transform your virtual meeting experience with a 24" FHD video conferencing monitor designed for world class desktop collaboration. For best customer experience with the Ultra, order the without stand (WOST) configuration.

DELL 34 CURVED VIDEO CONFERENCING MONITOR | C3422WE

Immerse in collaboration with the panoramic views of this 34" curved video conferencing monitor with pop-up 5MP camera, integrated speakers and noise-canceling microphone.

DELL PRO WIRELESS KEYBOARD AND MOUSE - KM5221W

Enhance your everyday productivity with a quiet full-size keyboard and mouse combo that offers programmable shortcuts and 36 months battery life.

DELL PRO STEREO HEADSET - UC350

Hear every word clearly on your next call with the Dell Pro Stereo Headset, optimized to provide in-person call quality and certified for Microsoft Skype for Business.

OPTIPLEX ULTRA .6 METER CABLES: USB-C TO USB-C; USB-C TO DISPLAYPORT; USB-B TO USB-A; DISPLAYPORT TO DISPLAYPORT

These short cables provide display connectivity options for a clutter-free workspace.

Product Gallery - dimensions

Height   256.2 mm
Width   96.1 mm
Depth   19.7 mm (w/o HDD cover/27.74 mm (w/ HDD cover)
Weight   Min. 1.13 lbs; Max. 1.43 lbs

OptiPlex 3090 and 7090 Ultra PC Module

Height   417.7 mm
Width   308.0 mm
Depth   247.8 mm
Weight   4.5 kg

OptiPlex Ultra Large Height Adjustable Stand

Height   367.6 mm
Width   260.0 mm
Depth   185.0 mm
Weight   2.8 kg

OptiPlex Ultra Height Adjustable Stand Pro2.0 ID

Product Gallery - dimensions

Height	434.0 mm
Width	245.2 mm
Depth	195 mm
Weight	2.5 kg

OptiPlex Ultra Height Adjustable Stand Pro1.0 ID

Height	434.0 mm
Width	229.5 mm
Depth	186.5 mm
Weight	2.25 kg

OptiPlex Ultra Fixed Stand

Height	379.7 mm
Width	96.1 mm
Depth	39.7 mm
Weight	0.8 kg

OptiPlex Ultra Wall Mount Bracket

Height	259.1 mm
Width	219.8 mm
Depth	24.2 mm
Weight	0.31 kg

OptiPlex Ultra Offset VESA Mount

Built for business

Dell Technologies Unified Workspace

Back your IT investment of the OptiPlex 3090 and 7090 Ultra with Dell Technologies Unified Workspace for the most comprehensive solution to deploy, secure, manage and support virtually all devices from the cloud.
This revolutionary solution is designed with intelligence and automation providing visibility across the entire endpoint environment. This complete solution from Dell Technologies helps customers save time, improve user experience, optimize resources and strengthen security.

DEPLOY

Our modern deployment solution, ProDeploy in the Unified Workspace allows you to revolutionize the way deployment gets done. By spending just one hour for set up, IT can then hand deployment to Dell and have preconfigured systems shipped directly to the end users--wherever they are.

SECURE

Dell Endpoint Security for the Unified Workspace helps you manage growing cyber risks while embracing workforce transformation. With Dell SafeGuard and Response powered by Secureworks, you gain actionable insight to help you quickly and efficiently prevent, detect and respond to cyber-attacks - keeping your environment free from harm.

MANAGE

We integrated our hardware management solution Dell Client Command Suite with VMware Workspace ONE, allowing you to take advantage of unified endpoint management (UEM) and manage the firmware, operating system and applications for all devices from the Workspace ONE console. UEM simplifies the management of the entire environment saving IT time from having to work between separate consoles for PCs and phones.

SUPPORT

ProSupport Plus continues to be the only predictive and proactive support in the market. When compared to key competitors, ProSupport Plus with SupportAssist reduced time to resolve a failed hard drive with up to 11x faster time to resolution*

*Based on a Principled Technologies test report, "Spend Less Time and Effort Troubleshooting Laptop Hardware Failures" dated April 2018. Testing ommissioned by Dell, conducted in the United States. Actual results will vary. Full report: http://facts.pt/L52XKM

Feature	OptiPlex 7090 Ultra Technical Specifications[1]
Processor[1]	11th Generation Intel® Core™ i3-1115G4, 6 MB Cache, 2 Cores, 4 Thread, 3.0 GHz to 4.1 GHz, 28 W 11th Generation Intel® Core™ i5-1145G7, vPRO®, 8 MB Cache, 4 Cores, 8 Thread, 2.6 GHz to 4.4 GHz, 28 W 11th Generation Intel® Core™ i7-1185G7, vPRO®, 12 MB Cache, 4 Cores, 8 Thread, 3.0 GHz to 4.8 GHz, 28 W
Chipset	Tiger Lake PCH-LP
Operating System[1] Options	Windows® 10 Pro, 64-bit Windows® 10 Home, 64-bit Windows® 10 Pro Education, 64-bit Windows® 10 CMIT Government Edition (CMGE) v10 (Coming soon) Windows® 10 IoT Enterprise 2019, LTSC (OEM only, Coming soon) Ubuntu® 20.04 NeoKylin® v10 (China only, Coming soon)
Memory[1,2,3]	4 GB, 1 x 4 GB, DDR4, 3200 MHz 8 GB, 1 x 8 GB, DDR4, 3200 MHz 8 GB, 2 x 4 GB DDR4, 3200 MHz 16 GB, 1 x 16 GB, DDR4, 3200 MHz 16 GB, 2 x 8 GB, DDR4, 3200 MHz 32 GB, 1 x 32 GB, DDR4, 3200 MHz 32 GB, 2 x 16 GB, DDR4, 3200 MHz 64 GB, 2 x 32 GB, DDR4, 3200 MHz
Primary Hard Drive[1,5]	2.5-inch, 1 TB, 5400 RPM, SATA, HDD 2.5-inch, 2 TB, 5400 RPM, SATA, HDD 2.5-inch, 500 GB, 7200 RPM, SATA, HDD, Self-Encrypting, Opal 2.0, FIPS 2.5-inch, 500 GB, 7200 RPM, SATA, HDD 2.5-inch, 1 TB, 7200 RPM, SATA, HDD M.2 2230, 128 GB, Gen 3, PCIe x4, NVMe, Class 35 SSD M.2 2230, 256 GB, Gen 3, PCIe x4, NVMe, Class 35 SSD M.2 2230, 512 GB, Gen 3, PCIe x4 NVMe, Class 35 SSD M.2 2230, 256 GB, Gen 3, PCIe x4 NVMe, Opal Self-Encrypting Class 35 SSD M.2 2280, 256 GB, Gen 3, PCIe x4, NVMe, Class 40 SSD M.2 2280, 512 GB, Gen 3, PCIe x4, NVMe, Class 40 SSD M.2 2280, 1 TB, Gen 3, PCIe x4, NVMe, Class 40 SSD M.2 2280, 2 TB, Gen 3, PCIe x4, NVMe, Class 40 SSD M.2 2280, 256 GB, Gen 3, PCIe x4 NVMe, Opal Self-Encrypting Class 40 SSD M.2 2280, 512 GB, Gen 3, PCIe x4 NVMe, Opal Self-Encrypting Class 40 SSD M.2 2280, 1 TB, Gen 3, PCIe x4 NVMe, Opal Self-Encrypting Class 40 SSD Intel® Optane™ Memory H20 with Solid State Storage, 512 GB, M.2 2280, PCIe NVMe Gen3 x4 32 GB eMMC – supported on Ubuntu only 64 GB eMMC – supported on Ubuntu only
Video Card	Intel® UHD Graphics (with 11th Generation Intel® Core™ i3 processor) Intel® Iris®Xe Graphics (with 11th Generation Intel® Core™ i5/i7 processors)
Display[1]	Qualified with select Dell Professional, UltraSharp, Collaboration, and E series monitors
Productivity Software[1]	Microsoft® Office 30 Day Trial Microsoft® Office Home and Business 2019 Microsoft® Office Professional 2019 Dell Optimizer Intel Unite® solution (optional) Dell Hybrid Client 1.5 (optional)*post-RTS. Dell Hybrid Client is available with select configurations only. For more details see DellTechnologies.com/DellHybridClient or contact your Dell Technologies Services Representative.
Software Security[1]	Dell Encryption Personal, Dell Encryption Enterprise, Dell Encryption External Media Dell Data Guardian Dell Data Protection	Bitlocker Manager (DDP | BLM) Dell Data Protection	Endpoint Security Suite or Dell Endpoint Security Suite Pro Dell Data Protection	Endpoint Security Suite Enterprise or Dell Endpoint Security Suite Enterprise Dell Threat Defense RSA SecureID® RSA NetWitness® Endpoint Microsoft Windows Bitlocker Manager Windows 10 Device Guard and Credential Guard Intel® Secure Boot (TXT + TPM) - Launch control policy Intel® Identity Protection (IPT) Intel® Guard Technologies & Secure Key McAfee® Small Business Security subscription, Digitally Delivered SafeGuard and Response (powered by Secureworks) SafeData: includes Dell Data Guardian, Dell Encryption, Dell Endpoint Security Services
Systems Management[1]	Dell Client Command Suite for In-Band systems management Intel® vPro™ for Out-of-Band systems management
Ports	Side ports 1 USB 3.2 Gen 2 Type-A port with PowerShare 1 USB 4™ Type-C® with DisplayPort Alt Mode/Thunderbolt™ 4.0 1 Headset/Universal Audio Jack Rear ports 2 USB 3.2 Gen 2 Type-A with SmartPower On 1 USB 3.2 Gen 2 Type-C port with Display Port Alt Mode/Power delivery 1 RJ45 Network Connector 1 4.50 mm x 2.90 mm DC-in port 1 DisplayPort 1.4 + + HBR2 port
Slots	1 Security screw hole to secure cover 1 Kensington cable lock slot
Hardware Security[1,6]	Trusted Platform Module (TPM) 2.0 discrete FIPS (Federal Information Processing Standards) 140-2 certification for Trusted Platform Module (TPM) Trusted Computing Group (TCG) Certification for TPM SafeBIOS: includes Dell Off-host BIOS Verification, BIOS Resilience, BIOS Recovery, and additional BIOS Controls SafeID credential protection Self Encrypting Drive (SED), Opal 2.0 only - PCIe Interface Physical Security Options: 1 Kensington Lock Slot, 1 Security screw hole to secure cover, Chassis Intrusion Switch, Lockable Cover for Height Adjustable Stands and Fixed Stand, Smart Card Keyboard, Dell MS819 Wired Mouse with Fingerprint Reader, Port Cover on Wall mount
Wireless[4]	Qualcomm® QCA61x4a 802.11ac dual band 2x2 + Bluetooth® 5.0 Intel® Wi-Fi 6 AX201 2x2 (Gig+) + Bluetooth® 5.1

Features & Technical Specifications

Feature	OptiPlex 7090 Ultra Technical Specifications[1]
Audio & Speakers[1]	Realtek ALC3204-CG, Waves MaxxAudio v10, High Definition Audio External speakers, Dell Pro Stereo Headsets
Keyboard[1]	Dell Wireless Keyboard and Mouse - KM5221W Dell KB216 Multimedia Keyboard Dell KB813 Smartcard Keyboard Dell KM636 Wireless Keyboard and Mouse Combo Dell KB522 Multimedia Wired Keyboard
Mouse[1]	Dell MS116 Wired Mouse Dell MS3220 Laser Mouse Dell MS819 Wired Mouse with Fingerprint Reader
Warranty[9,10,11]	Base/Limited Hardware Warranty8; Onsite Service after Remote Diagnosis[9]; Optional Dell ProSupport and ProSupport Plus. Optional 3, 4 or 5 Years Accidental Damage Service
Deployment Services[11]	ProDeploy Client Suite ProDeploy in the Unified Workspace Dell Provisioning for Workspace ONE
Dimensions	**US Dimensions:** Height: 0.78 in. (19.70 mm) Width: 3.78 in. (96.10 mm) Depth: 10.09 in. (256.20 mm) Weight: 1.43 lb (0.65 kg) **Rest of World (ROW) Dimensions:** Height: 19.70 mm (0.78 in.) Width: 96.10 mm (3.78 in.) Depth: 256.20 mm (9.27 in.) Weight: 0.65 kg (1.43 lb) **India Dimensions:** Height: 19.70 mm Width: 96.10 mm Depth: 256.20 mm Weight: 0.65 kg (1.43 lb)
Power	E4 90 W, 4.5 mm
Stands & Mounts	Dell Single Monitor Arm - MSA20 OptiPlex Ultra Wall Mount OptiPlex Ultra Offset VESA Mount OptiPlex Ultra Height Adjustable Stand 19 in. - 27 in. monitors OptiPlex Ultra Fixed Stand for 19 in. - 24 in. monitors OptiPlex Ultra Large Height Adjustable Stand for 30 in. - 40 in. monitors
Cables	DisplayPort to DisplayPort Cable (0.6 meter) USB-C to USB-C Cable (0.6 meter) USB-C to DisplayPort Cable (0.6 meter) USB-A to USB-B 3.0 Cable (0.6 meter)
Regulatory[7,10]	ENERGY STAR® 8.0 qualified Compliant. EPEAT Gold Registered available in select configurations and regions. China CECP Compliant. China RoHS Compliant. China CEL Compliant. TCO 8.0 available in select configurations. WEEE Compliant. EU RoHS Compliant. Japan Energy Law Compliant. South Korea E-standby Compliant.

Feature	OptiPlex 3090 Ultra Technical Specifications[1]		

Processor[1]
11th Generation Intel® Core™ i3-1115G4, 6 MB Cache, 2 Cores, 4 Thread, 3.0 GHz to 4.1 GHz, 15 W
11th Generation Intel® Core™ i5-1145G7, 8 MB Cache, 4 Cores, 8 Thread, 2.6 GHz to 4.4 GHz, 15 W
Intel® Celeron 6305, 4 MB Cache, 2 Cores, 2 Thread, Up to 1.80 GHz, 15 W

Chipset
Tiger Lake PCH-LP

Operating System Options[1]
Windows® 10 Pro, 64-bit
Windows® 10 Home, 64-bit
Windows® 10 Pro Education, 64-bit
Windows® 10 CMIT Government Edition (CMGE) v10 (Coming soon)
Windows® 10 IoT Enterprise 2019, LTSC (OEM only, Coming soon)
Ubuntu® 20.04
NeoKylin® v10 (China only, Coming soon)

Memory[2,3]
4 GB, 1 x 4 GB, DDR4, 3200 MHz
8 GB, 1 x 8 GB, DDR4, 3200 MHz
8 GB, 2 x 4 GB DDR4, 3200 MHz
16 GB, 1 x 16 GB, DDR4, 3200 MHz
16 GB, 2 x 8 GB, DDR4, 3200 MHz
32 GB, 1 x 32 GB, DDR4, 3200 MHz
32 GB, 2 x 16 GB, DDR4, 3200 MHz
64 GB, 2 x 32 GB, DDR4, 3200 MHz

Primary Hard Drive[1,5]
2.5-inch, 1 TB, 5400 RPM, SATA, HDD
2.5-inch, 2 TB, 5400 RPM, SATA, HDD
2.5-inch, 500 GB, 7200 RPM, SATA, HDD, Self-Encrypting, Opal 2.0, FIPS
2.5-inch, 500 GB, 7200 RPM, SATA, HDD
2.5-inch, 1 TB, 7200 RPM, SATA, HDD
M.2 2230, 128 GB, Gen 3, PCIe x4, NVMe, Class 35 SSD
M.2 2230, 256 GB, Gen 3, PCIe x4, NVMe, Class 35 SSD
M.2 2230, 512 GB, Gen 3, PCIe x4 NVMe, Class 35 SSD
M.2 2230, 1 TB, Gen 3, PCIe x4 NVMe, Class 35 SSD
M.2 2230, 256 GB, Gen 3, PCIe x4 NVMe, Opal Self-Encrypting Class 35 SSD
32 GB eMMC – supported on Ubuntu only
64 GB eMMC – supported on Ubuntu only

Video Card[2]
Intel® UHD Graphics (with 11th Generation Intel® Core™ i3 and Intel® Celeron processors)
Intel® Iris®Xe Graphics (with 11th Generation Intel® Core™ i5 processor)

Display[1]
Qualified with select Dell Professional, UltraSharp, Collaboration, and E series monitors

Productivity Software[1]
Microsoft® Office 30 Day Trial
Microsoft® Office Home and Business 2019
Microsoft® Office Professional 2019
Dell Hybrid Client 1.5 (optional) * Coming soon. Dell Hybrid Client is available with select configurations only. For more details see DellTechnologies.com/DellHybridClient or contact your Dell Technologies Services Representative.

Software Security[1]
Dell Encryption Personal
Dell Encryption Enterprise
Dell Encryption External Media
Dell Data Guardian
Dell Data Protection | Bitlocker Manager (DDP | BLM)
Dell Data Protection | Endpoint Security Suite or Dell Endpoint Security Suite Pro
Dell Data Protection | Endpoint Security Suite Enterprise or Dell Endpoint Security Suite Enterprise
Dell Threat Defense
RSA SecureID®
RSA NetWitness® Endpoint
Microsoft Windows Bitlocker Manager
Windows 10 Device Guard and Credential Guard
Intel® Secure Boot (TXT + TPM) - Launch control policy
Intel® Identity Protection (IPT)
Intel® Guard Technologies & Secure Key
McAfee® Small Business Security subscription, Digitally Delivered
SafeGuard and Response (powered by Secureworks)
SafeData: includes Dell Data Guardian, Dell Encryption, Dell Endpoint Security Services

Systems Management
Dell Client Command Suite for In-Band systems management

Ports
Side ports
    1 USB 3.2 Gen 2 Type-A port with PowerShare
    1 USB 3.2 Gen 2 Type-A port
    1 Headset/Universal Audio Jack
Rear ports
    2 USB 3.2 Gen 2 Type-A with SmartPower On
    1 USB 3.2 Gen 2 Type-C port with DisplayPort Alt Mode/ Power delivery
    1 DisplayPort 1.4 + + HBR2
    1 RJ45 Network Connector
    1 4.50 mm x 2.90 mm DC-in port

Slots
1 Security screw hole to secure cover
1 Kensington cable lock slot

Hardware Security[1,6]
Trusted Platform Module (TPM) 2.0 discrete
FIPS (Federal Information Processing Standards) 140-2 certification for Trusted Platform Module (TPM)
Trusted Computing Group (TCG) Certification for TPM
SafeBIOS: includes Dell Off-host BIOS Verification, BIOS Resilience, BIOS Recovery, and additional BIOS Controls
SafeID credential protection
Self Encrypting Drive (SED), Opal 2.0 only - PCIe Interface
Physical Security Options: 1 Kensington Lock Slot, 1 Security screw hole to secure cover, Chassis Intrusion Switch,
Lockable Cover for Height Adjustable Stands and Fixed Stand, Smart Card Keyboard, Dell MS819 Wired Mouse with Fingerprint Reader,
Port Cover on Wall mount

Wireless[4]
Qualcomm® QCA61x4a 802.11ac dual band 2x2 + Bluetooth® 5.0
Qualcomm® QCA9377 802.11ac dual band 1x1 + Bluetooth® 5.0
Intel® Wi-Fi 6 AX201 2x2 (Gig+) + Bluetooth® 5.1

Feature	OptiPlex 3090 Ultra Technical Specifications[1]
Audio & Speakers[1]	Realtek ALC3204-CG, Waves MaxxAudio v10, High Definition Audio External speakers, Dell Pro Stereo Headsets
Keyboard[1]	Dell Wireless Keyboard and Mouse - KM5221W Dell KB216 Multimedia Keyboard Dell KB813 Smartcard Keyboard Dell KM636 Wireless Keyboard and Mouse Combo Dell KB522 Multimedia Wired Keyboard
Mouse[1]	Dell MS116 Wired Mouse Dell MS3220 Laser Mouse Dell MS819 Wired Mouse with Fingerprint Reader
Warranty[8,9]	Base/Limited Hardware Warranty[8]; Onsite Service after Remote Diagnosis[9]; Optional Dell ProSupport and ProSupport Plus. Optional 3-, 4- or 5-Years Accidental Damage Service
Deployment Services[11]	ProDeploy Client Suite ProDeploy in the Unified Workspace Dell Provisioning for Workspace ONE
Dimensions	**US Dimensions:** Height: 0.78 in. (19.70 mm) Width: 3.78 in. (96.10 mm) Depth: 10.09 in. (256.20 mm) Weight: 1.43 lb (0.65 kg) **Rest of World (ROW) Dimensions:** Height: 19.70 mm (0.78 in.) Width: 96.10 mm (3.78 in.) Depth: 256.20 mm (9.27 in.) Weight: 0.65 kg (1.43 lb) **India Dimensions:** Height: 19.70 mm Width: 96.10 mm Depth: 256.20 mm Weight: 0.65 kg (1.43 lb)
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Cables	DisplayPort to DisplayPort Cable (0.6 meter) USB-C to USB-C Cable (0.6 meter) USB-C to DisplayPort Cable (0.6 meter) USB-A to USB-B 3.0 Cable (0.6 meter)
Regulatory[7,10]	ENERGY STAR® 8.0 qualified Compliant. EPEAT Gold Registered available in select configurations and regions. China CECP Compliant. China RoHS Compliant. China CEL Compliant. TCO 8.0 available in select configurations. WEEE Compliant. EU RoHS Compliant. Japan Energy Law Compliant. South Korea E-standby Compliant.

DELLTechnologies

OPTIPLEX 3090 ULTRA AND 7090 ULTRA

The world's most flexible modular
all-in-one experience for a streamlined workspace

Discover professional class desktops at www.DellTechnologies.com/OptiPlex

1. Based on Dell analysis of competitive products, October 2020. The modular all-in-one solution requires compatible Ultra stand and VESA compatible USB-C displays capable of supporting power delivery. Displays sold separately. Dell Technologies Legal AD# G20000408
2. Based on Dell internal analysis –Dell Customer Advisory Council Survey, 2017.
3. Source: The Rise Of The Micro PC Security And End User Productivity Benefits Drive Increased Micro PC Adoption. A Custom Technology Adoption Profile. A For rester Study Commissioned By Dell | February 2017.
4. Source: Dell and Partners Workforce Productivity Benefits: Three strategies for smarter and faster productivity assessed through Total Economic Impact (title still TBD). A Forrester Total Economic Impact™ Study Commissioned By Dell | December 2018. Global research study with 732 workplace technology decision-makers.
5. Dell Optimizer ExpressResponse must be enabled in the Applications feature. Dell Optimizer learns how a user uses the selected application(s) over several hours. Based on Dell testing using Sysmark 2018 benchmark running productivity applications, March 2020. Improvement will vary based on product configuration, use, application and other factors. Dell Technologies Legal AD#G20000050.
6. Based on Dell analysis of publicly available specs of competitive products, September 2020. OptiPlex Ultra supports 40" displays with OptiPlex Ultra Large Height Adjustable Stand or VESA compatible displays up 40", sold separately. Dell Technologies Legal AD# G20000408.
7. Based on Dell analysis of publicly available specs of competitive products, October 2020. Dell Technologies Legal AD# G20000408.
8. ExpressConnect: Experience seamless Wi-Fi. New ExpressConnect automatically joins the strongest network and directs bandwidth to conferencing applications, wherever you work. Dell Technologies Legal AD#G20000050.
9. Based on Dell analysis, September 2020. Zero footprint requires compatible Ultra stand and VESA compatible USB-C displays capable of supporting power delivery. Displays sold separately. Dell Technologies Legal AD# G20000408.
10. Source: IDC Worldwide Quarterly PC Monitor Tracker, Q3 2020
11. Source: Based on Principled Technologies Report commissioned by Dell, "Improve productivity with the new Dell P Series monitors in a dual-display configuration", November 2018, compared to an older model in single-display configuration. Actual results will vary. Full report: https://www.principledtechnologies.com/Dell/P2419H_monitor_productivity_1118.pdf
12. Based on Dell analysis of publicly available information of competitive desktop video conferencing monitors, October 2020 Ad #G20000382.
13. ComfortView Plus is an always-on, built-in low blue light screen that reduces harmful blue light emissions without sacrificing color. Ad #G20000382.

Technical Specification disclaimers:

1. Offering may vary by region. Some items may be available after product introduction. For complete details, refer to the Technical Guidebook published on www.dell.com/support.
2. System Memory and Graphics: Significant system memory may be used to support graphics, depending on system memory size and other factors.
3. 4GB or Greater System Memory Capability: A 64-bit operating system is required to support 4GB or more of system memory.
4. Particular versions of Microsoft Windows may not support the full Bluetooth 4.2 functionality
5. Storage Option: GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.
6. TPM is available in selected regions.
7. Please refer to www.epeat.net for specific country registration rating and participation.
8. Limited Hardware Warranty available by writing Dell USA LP, Attn: Warranties, One Dell Way, Round Rock, TX 78682 or see dell.com/warranty or contact your Dell Technologies Services Representative
9. 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.
10. For complete listing of declarations and certifications, refer to the Dell Regulatory and Environmental Datasheet found in the Manuals section of Product Support information at www.dell.com/support. Please refer to www.epeat.net for specific country registration rating and participation.
11. Not all features and services are available in all countries or sales segments/customers. Availability and terms of Dell Services vary by region. For more information, visit www.dell.com/servicedescriptions.
12. For complete listing of declarations and certifications, refer to the Dell Regulatory and Environmental Datasheet found in the Manuals section of Product Support information www.dell.com/support.