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Dell optiplex 790 graphics card specs

The Dell OptiPlex 790 Technical Guidebook provides an overview of the mini tower, desktop, small form factor, and ultra-small form factor computers in the OptiPlex 790 series. The guidebook includes detailed views of the front and back panels of each model, highlighting key features such as power buttons, optical drives, and expansion slots. The OptiPlex 790 models are distinguished by their configuration options, including different types of storage devices, RAM modules, and drives. It is recommended to install memory modules in pairs to ensure optimal performance. The guidebook also notes that some configurations may vary depending on the country or region, and provides information on how to configure the computer to meet specific needs. Additionally, it mentions that Dell's Global Standard Products (GSP) offer a standardized platform for purchasing computers worldwide, which can help reduce costs. Some additional features of the OptiPlex 790 models include: * Mini tower model: supports up to 16 GB of RAM and has five 5.25-inch bays for external storage devices * Desktop model: supports up to 64 GB of RAM and has four expansion slots * Small form factor model: supports up to 16 GB of RAM and has two expansion slots * Ultra-small form factor model: supports up to 16 GB of RAM and has no expansion slots **Optical Drive**: The Dell OptiPlex 790 requires a slim-line optical drive for SFF and USFF configurations. **Graphics/Video Controller**: The MT supports full height cards, while DT supports low profile cards. SF supports low profile cards as well. **Communications - Network Adapter (NIC)**: Similar to the Graphics/Video Controller note, MT supports full height cards, while DT and SF support low profile cards. **ProSupport**: Optional service that provides guarantees and limited warranties. For more information, visit [www.dell.com/warranty](. **Detailed Engineering Specifications**: * **System Dimensions (Physical)**: Weight and shipping weight may vary based on PC configuration. * **System Level Environmental and Operating Conditions**: Unspecified. **Power Note**: The system utilizes Active Power Factor Correction (APFC) power supply. Dell recommends only Universal Power Supplies (UPS) based on sine wave output for APFC PSUs, not approximations of sine, square, or quasi-square waves. **Audio**: * Integrated Realtek ALC269Q High Definition Audio * USFF: High Definition Stereo support with 16, 20, and 24-bit resolution * Sampling rate (recording/playback): Support for 44.1K/48K/96K/192 kHz sample rates **Communications - Network Adapter (NIC)** (continued): * Integrated Intel... * Broadcom NetXtreme 10/100/1000 USFF **Hardware Components** The Dell OptiPlex 790 computer has several hardware components, including networking cards, graphics/video control, and hard drives. * Networking card: The system supports Gigabit networking, but only with wired connections. Optional wireless cards are not supported. * Graphics/video control: The system supports full-height PCIe x16 graphics cards from AMD Radeon HD6450, which have a bus type of PCIEx16. However, some systems may only support slower profile (LP) cards. * Hard drives: + 3.5" SATA 7200 RPM HDDs with capacities up to 1TB and 500GB are available in various sizes (320GB, 250GB). + 2.5" SATA 7200 RPM HDDs with capacities up to 128GB are also available. * Other hard drive options: + Hybrid HDDs for 2.5" drives + SSDs for 2.5" drives **Technical Specifications** The system's technical specifications include: * Processor compatibility: Full-height cards supported * Graphics/video control: Supports full-height graphics cards, but may only support slower profile (LP) cards. * Hard drive interfaces and speeds: + SATA 3.0 interface with up to 6Gb/s speed for 3.5" HDDs + SATA 2.0 interface with up to 3Gb/s speed for 3.5" HDDs Overall, the Dell OptiPlex 790 computer has a range of hardware options and technical specifications that support various applications and workloads. Given article text here 148.2mm(6in)/42mm (2in)/ 148.2mm(6in)/42mm (2in)/ 128.0 mm (5.04)/ 12.7mm 128.0 mm (5.04)/ 12.7mm Without Bezel – W x H x 190.5 (max) Dell OptiPlex 790 Technical Guidebook - V 2.0 Operational Details DVD-ROM (CONT.) USFF Power Source DC Power Requirements 12V, 5V 12V, 5V 1200mA (12V)/ 900mA 1200mA (12V)/ 900mA Media Card Reader NOTE: Dell 19 in 1 Media Card Reader (MCR) is supported via a F5 to F3 bay converter on the MT and DT and may require a slim line optical drive depending on selectable configuration. Dell OptiPlex 790 Technical Guidebook - V 2.0 BIOS Defaults Integrated NIC: Enable System Configuration USB Controller: Enable or disable Serial Port: COM1 SATA Operation: AHCI Enable or disable the integrated USB Controller for: Boot support Regulatory Datasheet for this product is located at . Details of Dell's environmental stewardship program to conserve product energy consumption, reduce or eliminate materials for disposal, prolong product life span and provide effective and convenient equipment recovery solutions may be viewed at www.dell.com/environment. Protect developing countries from e-waste exports: Because responsible recycling matters to you, it matters to us. In 2009, Dell was the first in the industry to ban the export of nonworking electronics or All configs electronic waste (e-waste) to developing countries. Learn more: d/corp-comm/e-waste.aspx 16X DVD+/-RW SATA HH Graphics Adapter Intel HD Graphics Family AMD Radeon HD6350 The Declared Noise Emission in accordance with ISO 9296 for the Dell OptiPlex 780 MT is as follows: (all values L expressed in bels; 1 bel=10 decibels, re 10 Watts) Page 46 16X DVD+/-RW SATA HH Graphics Adapter Intel HD Graphics Family AMD Radeon HD6350 The Declared Noise Emission in accordance with ISO 9296 for the Dell OptiPlex 780 DT is as follows: (all values L expressed in bels; 1 bel=10 decibels, re 10 Watts) Page 47 16X DVD+/-RW SATA HH Graphics Adapter Intel HD Graphics Family AMD Radeon HD6350 The Declared Noise Emission in accordance with ISO 9296 for the Dell OptiPlex 780 SFF is as follows: (all values L expressed in bels; 1 bel=10 decibels, re 10 Watts) 8X 12.7 SATA DVDRW Graphics Adapter Intel HD Graphics Family The Declared Noise Emission in accordance with ISO 9296 for the Dell Optiplex 780 USFF is as follows: (all values L expressed in bels; 1 bel=10 decibels, re 10 Watts) Yes, you can upgrade Dell OptiPlex 790 SFF for gaming with better processors, graphics card, memory, and storage devices. However, like many other business pre-built PCs, this model may have proprietary elements like the power supply, the chassis or the power connector, which can make it difficult for users to install aftermarket PSUs to support better GPUs. You can also find that there is space constraints inside the chassis, making it difficult to accommodate larger GPU to boost the gaming performance. Please explore the sections below to find ideas and suggestions on how to upgrade Dell OptiPlex 790 SFF. Dell OptiPlex 790 SFF does not meet Windows 11 hardware requirements due to its Intel 7th Gen CPU or older. Upgrading from Windows 10 requires TPM 2.0 and UEFI Secure Boot BIOS. However, users can download the official Windows 11 ISO and install it manually. For GPU upgrade, AMD's Radeon RX 6400 low-profile is a good option for SFF gaming builds due to its low power requirements (75W) that rely solely on the PCIe slot. Other options include GTX 1050 Ti, GTX 1650, and RTX A2000, but keep in mind they may run hot or be noisy. The Dell OptiPlex 790 SFF supports Gen2 Intel Core technology with a maximum of 6 cores (on an i7 processor). Upgrading to more recent CPUs is recommended for enjoying recent games. The system has four RAM slots and supports dual-channel memory configuration, sufficient for most use cases. For office work, home use, and light gaming, 8GB of RAM is recommended, while 16GB or more is needed for heavier workloads. Faster RAM speeds permit faster processor access to stored data. The motherboard supports RAM speeds up to 1333 MT/s. The Dell OptiPlex 790 SFF does not have on-board Wi-Fi support, so users can opt for external USB Wi-Fi adapters or PCIe-based wireless adapters for upgrading the system with Wi-Fi capabilities. but has less space for a decent antenna, and may experience thermal issues. On the other hand, the PCIe-based adapter is more powerful, reliable, and features better antennas, but it's harder to install. Wi-Fi and Bluetooth wireless adapter upgrades for Dell OptiPlex 790 SFF: * Model * Speed * Frequency * Interface WiFi 6E (Gig+) Kit 3000 Mbit/s 2.4GHz / 5GHz NGFF M.2 A/E KeyRekong AX210 3000 Mbit/s 2.4GHz / 5GHz NGFF M.2 A/E KeyGigabyte GC-Wbax200 2400 Mbit/s 2.4GHz / 5GHz PCIETP-Link Archer TX50E 2400 Mbit/s 2.4GHz / 5GHz PCIETP-Link Archer T9UH 1300 Mbit/s 2.4GHz / 5GHz USB 3.0 PortsPorts are crucial when buying a PC, and people often overlook them. If you need enough USB ports, external devices can become problematic. Before buying a system, consider your use case and plan the number of expansion ports accordingly. USB portsThe Dell OptiPlex 790 SFF comes with ten USB ports in total. While having more ports is better, also pay attention to their version. Higher versions support faster transfer speeds. Unfortunately, this model doesn't come with a USB 3.1 port. If you need faster connections for peripherals like external Solid State Drives, choose another model. Video portsThe DisplayPort (DP) is the most widely used digital interface for transmitting digital video and audio between display devices and PCs. The Dell OptiPlex 790 SFF features a DisplayPort 1.2, which is good for most users but not ideal for those who want higher resolutions with high refresh rates. HDMI portThe HDMI port has similar capabilities to the DisplayPort, but this model doesn't have one. This isn't a problem if there's an on-board DisplayPort available. To use video ports, you need a CPU with integrated graphics card. If you have a dedicated GPU, use its ports instead.SSD storage - M.2 sockets and SATA portsThe SATA port is for connecting storage devices. The Dell OptiPlex 790 SFF comes with three SATA ports. However, it has no M.2 PCIe socket, relying on available SATA ports for drives. The M.2 PCIe SSD connector allows for higher transfer rates compared to the old SATA interface. In some situations, an NVMe device connected to the M.2 PCIe socket can be more than 5 times faster.Power SupplyThe Dell OptiPlex 790 SFF comes with a 240 Watt PSU. A high-power supply is essential, especially when upgrading with additional components like dedicated GPUs and HDDs. Power supply unit (PSU) capacity of 240W may be sufficient for your needs depending on how you intend to use it. It's also worth noting that some motherboards offer multiple PSU options, so choose the most powerful one if available, as this could simplify future upgrades and make maintenance more manageable.

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