

Specifications of OptiPlex 7480 All-in-One

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Dimensions and weight

Table 2. Dimensions and weight

Description	Values for touch display	Values for non-touch display
Height	344.00 mm (13.54 in.)	344.00 mm (13.54 in.)
Width	540.20 mm (21.26 in.)	540.20 mm (21.26 in.)
Depth	52.80 mm (2.07 in.)	52.80 mm (2.07 in.)
Weight (maximum)	6.32 kg (13.93 lb)	6.61 kg (14.57 lb)
Weight (Minimum)	5.95 kg (13.11 lb)	5.94 kg (13.09 lb)
NOTE: The weight of your system depends on the configuration that is ordered and the manufacturing variability.		

Processors

NOTE: Global Standard Products (GSP) are a subset of Dell's relationship products that are managed for availability and synchronized transitions on a worldwide basis. They ensure the same platform is available for purchase globally. This allows

customers to reduce the number of configurations managed on a worldwide basis, thereby reducing their costs. They also enable companies to implement global IT standards by locking in specific product configurations worldwide.

Device Guard (DG) and Credential Guard (CG) are the new security features that only available on Windows 10 Enterprise today. Device Guard is a combination of enterprise-related hardware and software security features. When you configure together, it locks a device and it can only run trusted applications. Credential Guard uses virtualization-based security to isolate secrets (credentials) and only privileged system software can access the system. Unauthorized access to these secrets can lead to credential theft attacks. Credential Guard prevents these attacks by protecting NTLM password hashes and Kerberos Ticket Granting Tickets.

NOTE: Processor numbers are not a measure of performance. Processor availability subject to change and may vary by region/country.

Table 3. Processors

Processors	Wattage	Core count	Thread count	Speed	Cache	Integrated graphics
10 th Generation Intel Core i3-10100	65 W	4	8	3.6 GHz to 4.3 GHz	6 MB	Intel UHD Graphics 630
10 th Generation Intel Core i3-10300	65 W	4	8	3.7 GHz to 4.4 GHz	8 MB	Intel UHD Graphics 630
10 th Generation Intel Core i5-10400	65 W	6	12	2.9 GHz to 4.3 GHz	12 MB	Intel UHD Graphics 630
10 th Generation Intel Core i5-10500	65 W	6	12	3.1 GHz to 4.5 GHz	12 MB	Intel UHD Graphics 630
10 th Generation Intel Core i5-10600	65 W	6	12	3.3 GHz to 4.8 GHz	12 MB	Intel UHD Graphics 630
10 th Generation Intel Core i7-10700	65 W	8	16	2.9 GHz to 4.8 GHz	16 MB	Intel UHD Graphics 630
10 th Generation Intel Core i9-10900	65 W	10	20	2.8 GHz to 5.2 GHz	20 MB	Intel UHD Graphics 630

Chipset

Table 4. Chipset

Description	Values
Chipset	Intel Q470
Processor	10 th Generation Intel Core i3/i5/i7/i9
DRAM bus width	64-bit (for single channel) 128-bit (for dual channel)
Flash EPROM	32 MB
PCIe bus	Up to Gen 3
Non-volatile memory	Yes
BIOS configuration Serial Peripheral Interface (SPI)	256 Mbit (32 MB) located at SPI_FLASH
Trusted Platform Module (TPM) 2.0 (Discrete TPM Enabled)	24 KB located at TPM 2.0 on chipset

Table 4. Chipset (continued)

Description	Values
Firmware-TPM (Discrete TPM disabled)	By default the Platform Trust Technology feature is visible to the operating system.
NIC EEPROM	LOM configuration contained within SPI flash ROM instead of LOM e-fuse

Operating system

- Windows 10 Home (64-bit)
- Windows 10 IoT Enterprise 2019 LTSC (OEM Only)
- Windows 10 Professional (64-bit)
- Windows 10 Pro Education (64-bit)
- NeoKylin 7.0 (China only)
- Ubuntu 18.04 (64-bit)

For more information about Dell OS Recovery image, see How to Download and Use the Dell OS Recovery Image in Microsoft Windows, at [Dell support site](#).

Commercial platform Windows 10 N-2 and 5-year operating system supportability:

All newly introduced 2019 and later commercial platforms (Latitude, OptiPlex, and Dell Precision) will qualify and ship with the most current factory installed Semi-Annual Channel Windows 10 version (N) and qualify (but not ship) the previous two versions (N-1, N-2). The OptiPlex 7480 All-in-One will RTS with Windows 10 version v19H2 at time of launch, and this version will determine the N-2 versions that are initially qualified for this platform.

For future versions of Windows 10, Dell continues to test the commercial platform with coming Windows 10 releases during device production and for five years post-production, including both fall and spring releases from Microsoft.

For additional information about N-2 and 5-year Windows operating system supportability, see the Dell Windows as a Service (WaaS), at [Dell support site](#).

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The OptiPlex 7480 All-in-One continues to test the coming Semi-Annual Channel Windows 10 version releases for five years post-production, including both fall and spring releases from Microsoft.

Memory

Table 5. Memory specifications

Description	Values
Slots	Two SO-DIMM slots
Type	DDR4, Non-ECC
Speed	2666 MHz/2933 MHz
Maximum memory	64 GB
Minimum memory	4 GB
Memory size per slot	4 GB, 8 GB, 16 GB, 32 GB
Configurations supported	• 4 GB, 1 x 4 GB, 2666 MHz for Intel Core i3/i5 processors, 2933 MHz for Intel Core i7/i9 processors • 8 GB, 1 x 8 GB, 2666 MHz for Intel Core i3/i5 processors, 2933 MHz for Intel Core i7/i9 processors

Table 5. Memory specifications (continued)

Description	Values
	8 GB, 2 x 4 GB, 2666 MHz for Intel Core i3/i5 processors, 2933 MHz for Intel Core i7/i9 processors 16 GB, 1 x 16 GB, 2666 MHz for Intel Core i3/i5 processors, 2933 MHz for Intel Core i7/i9 processors 16 GB, 2 x 8 GB, 2666 MHz for Intel Core i3/i5 processors, 2933 MHz for Intel Core i7/i9 processors 32 GB, 1 x 32 GB, 2666 MHz for Intel Core i3/i5 processors, 2933 MHz for Intel Core i7/i9 processors 32 GB, 2 x 16 GB, 2666 MHz for Intel Core i3/i5 processors, 2933 MHz for Intel Core i7/i9 processors 64 GB, 2 x 32 GB, 2666 MHz for Intel Core i3/i5 processors, 2933 MHz for Intel Core i7/i9 processors

Ports and connectors

Table 6. External ports and connectors

Description	Values
External:	
Network	One RJ-45 port 10/100/1000 Mbps (rear)
USB	- One USB 3.2 Gen 2 Type-C port (side) - One USB 3.2 Gen 1 Type-A port with PowerShare (side) - Two USB 3.2 Gen 2 Type-A ports with Smart Power On (rear) - Two USB 3.2 Gen 2 Type-A ports (rear)
Audio	- One Universal audio jack (side) - One Line-out audio port (rear)
Video	- One DP++ 1.4/HDCP 2.3 port (rear) - One HDMI-IN port (rear) - One HDMI-OUT port (rear)—HDMI 1.4b for UMA Graphics and HDMI 2.0 for Discrete Graphics
Media card reader	One SD 4.0 card slot (side)
Docking port	Not supported
Power adapter port	Not supported
Security	One Kensington security-cable slot

Table 7. Internal ports and connectors

Description	Values
Internal:	
M.2	- One M.2 2230 slot for Wi-Fi and Bluetooth card - Two M.2 2230/2280 slots for solid-state drive/Intel Optane

Table 7. Internal ports and connectors (continued)

Description	Values
	 NOTE: To learn more about the features of different types of M.2 cards, see the knowledge base article SLN301626 .

Communications

Ethernet

Table 8. Ethernet specifications

Description	Values
Model number	Intel i219LM
Transfer rate	10/100/1000 Mbps

Wireless module

Table 9. Wireless module specifications

Description	Values	
Model number	Intel Wi-Fi 6 AX201	Qualcomm QCA61x4a
Transfer rate	Up to 2400 Mbps	Up to 867 Mbps
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz
Wireless standards	- Wi-Fi 802.11 a/b/g - Wi-Fi 4 (Wi-Fi 802.11n) - Wi-Fi 5 (Wi-Fi 802.11ac) - Wi-Fi 6 (Wi-Fi 802.11ax)	- Wi-Fi 802.11 a/b/g - Wi-Fi 4 (Wi-Fi 802.11n) - Wi-Fi 5 (Wi-Fi 802.11ac)
Encryption	64-bit/128-bit WEP - AES-CCMP - TKIP	64-bit/128-bit WEP - AES-CCMP - TKIP
Bluetooth	Bluetooth 5.1	Bluetooth 5.0

Audio

Table 10. Audio specifications

Description	Values
Controller	Realtek Codec ALC3289
Stereo conversion	Supported
Internal interface	High definition audio interface
External interface	Universal audio jack

Table 10. Audio specifications (continued)

Description		Values
Speakers		2
Internal speaker amplifier		Realtek Amplifier ALC1302
External volume controls		Not supported
Speaker output:		
	Average	5 W
	Peak	6 W
Subwoofer output		Not supported
Microphone		4

Storage

Your computer supports one of the following configurations:

- One 2.5-inch hard-disk drive
- One M.2 2230/2280 solid-state drive (class 35, 40)
- One M.2 2230/2280 solid-state drive (class 35, 40) and one 2.5-inch hard-disk drive
- Dual M.2 2230/2280 solid-state drives (class 35, 40)
- Dual M.2 2230/2280 solid-state drives (class 35, 40) and one 2.5-inch hard-disk drive
- One 2.5-inch hard-disk drive and one M.2 16 GB Intel Optane Memory

The primary drive of your computer varies with the storage configuration. For computers:

- With a M.2 drive, the M.2 drive is the primary drive
- Without a M.2 drive, the 2.5-inch hard-disk drive is the primary drive
- With a M.2 16 GB Intel Optane memory, the 2.5-inch hard-disk drive is the primary drive

Table 11. Storage specifications

Storage type	Interface type	Capacity
2.5-inch, 7200 RPM, hard-disk drive	SATA	Up to 1 TB
2.5-inch, 7200 RPM, Opal Self-Encrypting hard-disk drive	FIPS SATA	Up to 500 GB
2.5-inch, 5400 RPM, hard-disk drive	SATA	Up to 2 TB
M.2 2230, Class 35 solid-state drive	Gen 3 PCIe x4 NVMe	Up to 512 GB
M.2 2230, Opal Self-Encrypting Class 35 solid-state drive	Gen 3 PCIe x4 NVMe	Up to 256 GB
M.2 2280, Class 40 solid-state drive	Gen 3 PCIe x4 NVMe	Up to 2 TB
M.2 2280, Opal Self-Encrypting Class 40 solid-state drive	Gen 3 PCIe x4 NVMe	Up to 1 TB

Intel Optane memory

Intel Optane memory functions only as a storage accelerator. It neither replaces nor adds to the memory (RAM) installed on your computer.

NOTE: Intel Optane memory is supported on computers that meet the following requirements:

- 7th Generation or higher Intel Core i3/i5/i7 processor
- Windows 10 64-bit version or higher (Anniversary Update)
- Latest version of Intel Rapid Storage Technology driver

Table 12. Intel Optane memory

Description	Values
Type	Memory
Interface	Gen 3 PCIe x4 NVMe
Connector	2280
Configurations supported	16 GB
Capacity	Up to 16 GB

Media-card reader

Table 13. Media-card reader specifications

Description	Values
Type	One Secure Digital (SD) 4.0 card
Cards supported	• Secure Digital High Capacity (SDHC) • Secure Digital Extended Capacity (SDXC) • Secure Digital (SD) 4.0 • SD UHS-I (UHS104) • SD UHS-II

Camera

Table 14. Full HD Infrared Webcam (with Windows Hello support)

Description	Values
Number of cameras	Two
Type	FHD RGB camera/VGA infrared camera
Location	Front camera
Sensor type	CMOS sensor technology
Resolution	
Camera	
Still image	2.07 megapixel

Table 14. Full HD Infrared Webcam (with Windows Hello support) (continued)

Description		Values
	Video	1920 x 1080 (FHD) at 30 fps
	Infrared camera	
	Still image	0.30 megapixel
	Video	640 x 480 (VGA) at 30 fps
Diagonal viewing angle		
	Camera	77.5 degrees
	Infrared camera	82.8 degrees

Table 15. Full HD Webcam

Description		Values
Number of cameras		One
Type		FHD RGB camera
Location		Front camera
Sensor type		CMOS sensor technology
Resolution		
	Camera	
	Still image	2.07 megapixels
	Video	1920 x 1080 (FHD) at 30 fps
Diagonal viewing angle		77.4 degrees

Power supply unit

Table 16. Power supply unit specifications

Description		Values
Type	220 W Platinum	160 W Bronze
Diameter (connector)	Not supported	Not supported
Input voltage	90 VAC to 264 VAC	90 VAC to 264 VAC
Input frequency	47 Hz to 63 Hz	47 Hz to 63 Hz
Input current (maximum)	3.6 A	3.6 A
Output current (continuous)	+19.5 VA/8.5 A +19.5 VB/9.2 A Standby mode: +19.5 VA/0.5 A +19.5 VB/1.75 A	+19.5 VA/7.5 A +19.5 VB/7.0 A Standby mode: +19.5 VA/0.5 A +19.5 VB/1.75 A
Rated output voltage	+19.5 VA +19.5 VB	+19.5 VA +19.5 VB
Temperature range:		

Table 16. Power supply unit specifications (continued)

Description	Values	
Operating	5°C to 45°C (41°F to 113°F)	5°C to 45°C (41°F to 113°F)
Storage	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)

Display

Table 17. Display specifications

Description		Values for touch display	Values for non-touch display
Type		Full High Definition (FHD)	Full High Definition (FHD)
Panel technology		Wide Viewing Angle (WVA)	Wide Viewing Angle (WVA)
Luminance		250 Nits (typical) 200 Nits (minimum)	250 Nits (typical) 200 Nits (minimum)
Dimensions (Active area):			
	Height	296.46 mm (11.67 in.)	296.46 mm (11.67 in.)
	Width	527.04 mm (20.75 in.)	527.04 mm (20.75 in.)
	Diagonal	604.70 mm (23.81 in.)	604.70 mm (23.81 in.)
Native resolution		1920 x 1080	1920 x 1080
Megapixels		16.7 million colors	16.7 million colors
Color gamut		72% NTSC typical	72% NTSC typical
Pixels per inch (PPI)		92.56	92.56
Contrast ratio (min)		600:01:00	600:01:00
Response time (max)		25 ms	25 ms
Refresh rate		60 Hz	60 Hz
Horizontal view angle		85 +/-degrees (minimum) 89 +/-degrees (typical)	85 +/-degrees (minimum) 89 +/-degrees (typical)
Vertical view angle		85 +/-degrees (minimum) 89 +/-degrees (typical)	85 +/-degrees (minimum) 89 +/-degrees (typical)
Pixel pitch		0.2745 x 0.2745 mm	0.2745 x 0.2745 mm
Power consumption (maximum)		16.60 W	16.60 W
Anti-glare vs glossy finish		Anti-glare	Anti-glare

Video

Table 18. Discrete graphics specifications

Discrete graphics			
Controller	External display support	Memory size	Memory type
NVIDIA GeForce GTX 1650	- DP++ 1.4/HDCP 2.3 port - HDMI-out—HDMI 2.0 port	4 GB	GDDR5

Table 19. Integrated graphics specifications

Integrated graphics			
Controller	External display support	Memory size	Processor
Intel UHD 630 Graphics	- DP++ 1.4/HDCP 2.3 port - HDMI-out—HDMI 1.4b port	Shared system memory	10 th Generation Intel Core i3/i5/i7/i9

Computer environment

Airborne contaminant level: G1 as defined by ISA-S71.04-1985

Table 20. Computer environment

Description	Operating	Storage
Temperature range	10°C to 35°C (50°F to 95°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	20% to 80% (non-condensing)	5% to 95% (non-condensing)
Vibration (maximum)*	0.26 GRMS	1.37 GRMS
Shock (maximum)	40 G†	105 G†
Altitude (maximum)	0 m to 3048 m (0 ft to 10000 ft)	0 m to 10668 m (0 ft to 35000 ft)

* Measured using a random vibration spectrum that simulates user environment.

† Measured using a 2 ms half-sine pulse when the hard drive is in use.

Security

Table 21. Security

Security options
Kensington lock
Dell Lockable port cover (optional)
Chassis lock slot support
Noble Custom AIO Plate Lock (optional)
Supply chain tamper alerts
Chassis intrusion switch
Trusted Platform Module (Discrete TPM Enabled)
SafeBIOS including Dell Off-host BIOS Verification

Table 21. Security (continued)

Security options
BIOS Resilience
BIOS Recovery, and additional BIOS Controls
SafelD including Trusted Platform Module (TPM) 2.0
Self-Encrypting Drives (SED)
Smart card keyboard (FIPS)
D-Pedigree (Secure Supply Chain Functionality)
Dell wired mouse with fingerprinter reader

Data security

Table 22. Data security

Data security options
McAfee® Small Business Security 30 Day Free Trial
McAfee® Small Business Security 12-month subscription
McAfee® Small Business Security 36-month Subscription
SafeGuard and Response, which is powered by VMware Carbon Black and Secureworks
Next Generation Anti-virus (NGAV)
Endpoint Detection and Response (EDR)
Threat Detection and Response (TDR)
Managed Endpoint Detection and Response
Incident Management Retainer
Emergency Incident Response
SafeData

Environmental

Table 23. Environmental specifications

Feature	Values
Recyclable packaging	Yes
BFR/PVC—free chassis	No
Vertical orientation packaging support	Yes
Multi-Pack packaging	No
Energy-Efficient Power Supply	Standard
ENV0424 compliant	Yes

NOTE: Wood-based fiber packaging contains a minimum of 35% recycled content by total weight of wood-based fiber. Packaging that contains without wood-based fiber can be claimed as Not Applicable. The anticipated required criteria for EPEAT 2018.

Regulatory

Table 24. Regulatory

Regulatory compliance
EPEAT registered configurations available
ENERGY STAR compliant configurations available
TCO 8.0 certified configurations available
CEL
WEEE
Japan Energy Law
South Korea E-standby
South Korea Eco-label
EU RoHS
China RoHS

Accessories

Table 25. Accessories

Accessories
Audio Optional external speakers, Dell Pro Stereo Headset UC350
Keyboard Dell wired keyboard, Dell wireless keyboard, Dell Smart Card keyboard
Mouse Dell wired mouse, Dell wireless mouse, Dell USB Laser mouse, Dell Fingerprint Reader mouse
Stylus Targus Stylus for Capacitive Touch Devices
Additional Monitor Qualified with select Dell UltraSharp, Professional, and E-series monitors
Locks Noble custom AIO Plate Lock, Dell Combination Lock LC300, Dell Premium Lock LP500, KensingtonTwin Head Lock, Dell Lockable Port Cover
Stands • Fixed Stand • Articulating Stand • Height Adjustable Stand • Height Adjustable Stand with Optical Disk Drive

Service and support

Table 26. Service and support

Warranty	Accidental Damage Service
3 Years Hardware Service with Onsite/In-Home Service after Remote Diagnosis, warranty extensions up to 5 years	Accidental Damage Service is available to complement certain warranty options Optional.
ProSupport with Next Business Day Onsite Service is available to complement certain warranty options.	
ProSupport Plus for Client is available to complement certain warranty options.	