OptiPlex All-in-One 7410

Technical Guidebook



Notes, cautions, and warnings

(i) NOTE: A NOTE indicates important information that helps you make better use of your product.

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

MARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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High Performance and Energy Efficient

To determine the specifications and features of your OptiPlex All-in-One 7410 some specifications in this document have been mentioned to be available only on computers with High Performance or Energy efficient processors.

High Performance and Energy Efficient processors can be determined as follows:

- High Performance: Computers shipped with 46 W, 60 W or 65 W processors and a power-supply unit.
- Energy Efficient: Computers shipped with 35 W processors and a power adapter.

Views of OptiPlex All-in-One 7410

Right



1. USB 3.2 Gen 2 port with PowerShare

Connect devices such as external storage devices, printers, and external displays.

Provides data transfer speeds up to 10 Gbps. Supports Power Delivery that enables two-way power supply between devices. Provides up to 10 W power output that enables faster charging.

- (i) NOTE: PowerShare enables you to charge your USB devices even when your computer is turned off.
- NOTE: If a USB device is connected to the PowerShare port before the computer is turned off or in hibernate state, you must disconnect and connect it again to enable charging.

Left



1. Storage drive activity light

The activity light turns on when the computer reads from or writes to storage drives.

2. Universal audio port

Connect headphones or a headset (headphone and microphone combo).

Display



1. Left microphone

Provides digital sound input for audio recording and voice calls.

2. Right microphone

Provides digital sound input for audio recording and voice calls.

3. Retractable camera

Enables you to video-chat, capture photos, and record videos. To protect your privacy, this camera can be retracted when it is not in use.

4. Right speaker

Provides audio output.

5. Left speaker

Provides audio output.

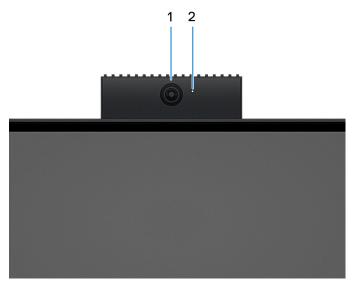
Retractable camera

Locating the retractable camera

NOTE: To access your retractable camera, press down on the retractable camera located at the top of your computer. To conceal your retractable camera and protect your privacy, press down on the retractable camera until it clicks into place.



Retractable camera view



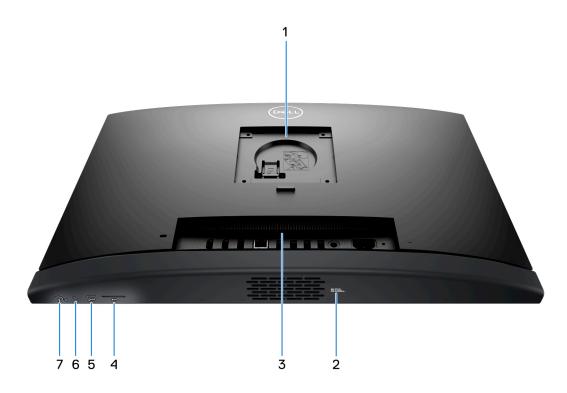
1 Camera

Enables you to video chat, capture photos, and record videos.

2. Camera-status light

Turns on when the camera is in use.

Bottom



1. Stand/VESA mount location

Allows for the installation of a 100 mm x 100 mm screw pitch VESA connection for use in standard environmental conditions, or one of the stands offered by Dell for your OptiPlex All-in-One 7410.

2. Service Tag label

The Service Tag is a unique alphanumeric identifier that enables Dell service technicians to identify the hardware components in your computer and access warranty information.

3. Back panel

Connect USB, audio, video, and other devices.

4. SD-card slot

Reads from and writes to the SD card.

5. USB 3.2 Gen 2 Type C port

Connect devices such as external storage devices and printers. Provides data transfer rate of up to 10 Gbps.

6. Display Built-in Self Test (BIST)/Display input button

Press and hold for your computer to enter a display Built-in Self Test (BIST).

NOTE: Press to switch display input to and from the device connected to the HDMI-in port on the back panel. This feature is only available on computers shipped with a High Performance processor.

7. Power button

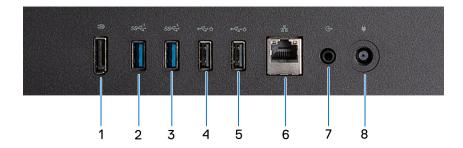
Press to turn on the computer if it is turned off, in sleep state, or in hibernate state.

When the computer is turned on, press the power button to put the computer into sleep state; press and hold the power button for 10 seconds to force shut-down the computer.

NOTE: You can customize the power-button behavior in Windows.

Back panel

For computers with Energy Efficient processors:



1. DisplayPort ++ 1.4a

Connect an external display or a projector. Can support video output of up to 5120 x 3200 at 60 Hz.

2. USB 3.2 Gen 1 port

Connect devices such as external storage devices and printers. Provides data transfer speeds up to 5 Gbps.

3. USB 3.2 Gen 1 port

Connect devices such as external storage devices and printers. Provides data transfer speeds up to 5 Gbps.

4. USB 2.0 port with Smart Power on

Connect devices such as external storage devices and printers. Provides data transfer speeds up to 480 Mbps.

NOTE: When USB wake is enabled in the BIOS the computer will power on or wake from hibernation when a USB mouse or keyboard that is connected to this port is used.

5. USB 2.0 port with Smart Power on

Connect devices such as external storage devices and printers. Provides data transfer speeds up to 480 Mbps.

NOTE: When USB wake is enabled in the BIOS the computer will power on or wake from hibernation when a USB mouse or keyboard that is connected to this port is used.

6. Network port

Connect an Ethernet (RJ45) cable from a router or a broadband modem for network or Internet access.

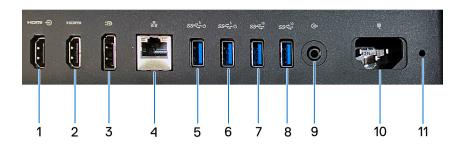
7. Audio line-out port, retaskable

Connect speakers.

8. Power-adapter port

Connect a power adapter to provide power to your computer.

For computers with High Performance processors:



1. HDMI-in 1.4b port

Connect a gaming console, Blu-ray player, or other HDMI-out enabled device.

2. HDMI-out 2.1 port

Connect to a TV, external display or another HDMI-in enabled device. Provides video and audio output and supports video output of up to 4096 x 2160 at 60Hz.

3. DisplayPort ++ 1.4a

Connect an external display or a projector. Can support video output of up to 5120 x 3200 at 60 Hz.

4. Network port

Connect an Ethernet (RJ45) cable from a router or a broadband modem for network or Internet access.

5. USB 3.2 Gen 1 port with Smart Power on

Connect devices such as external storage devices and printers. Provides data transfer speeds up to 5 Gbps.

NOTE: When USB wake is enabled in the BIOS the computer will power on or wake from hibernation when a USB mouse or keyboard that is connected to this port is used.

6. USB 3.2 Gen 1 port with Smart Power on

Connect devices such as external storage devices and printers. Provides data transfer speeds up to 5 Gbps.

NOTE: When USB wake is enabled in the BIOS the computer will power on or wake from hibernation when a USB mouse or keyboard that is connected to this port is used.

7. USB 3.2 Gen 2 port

Connect devices such as external storage devices and printers. Provides data transfer speeds up to 10 Gbps.

8. USB 3.2 Gen 2 port

Connect devices such as external storage devices and printers. Provides data transfer speeds up to 10 Gbps.

9. Audio line-out port, retaskable

Connect an audio device.

10. Power-cable connector

Connect a power cable to provide power to your computer.

11. Power-supply diagnostics light

Indicates the power-supply state.

Specifications of OptiPlex All-in-One 7410

Dimensions and weight

The following table lists the height, width, depth, and weight of your OptiPlex All-in-One 7410.

Table 1. Dimensions and weight

Description	Values	
Height:		
Front height	354.30 mm (13.95 in.)	
Rear height	354.30 mm (13.95 in.)	
Width	540 mm (21.26 in.)	
Depth	57.90 mm (2.28 in.)	
Weight i NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.	Maximum: 6.32 kg (13.93 lb)Minimum: 5.61 kg (12.37 lb)	

Processor

The following table lists the details of the processors supported by your OptiPlex All-in-One 7410.

High Performance processors

Table 2. High Performance processors

Description	Option one	Option two	Option three	Option four	Option five	Option six
Processor type	13th Generation Intel Core i3-13100	13th Generation Intel Core i5-13400	13th Generation Intel Core i5-13500, vPro	13th Generation Intel Core i5-13600, vPro	13th Generation Intel Core i7-13700, vPro	Pentium Gold G7400
Processor wattage	60 W	65 W	65 W	65 W	65 W	46 W
Processor total core count	4	10	14	14	16	2
Performance- cores	4	6	6	6	8	2
Efficient-cores	Not applicable	4	8	8	8	Not applicable
Processor total thread counts	8	16	20	20	24	4
i NOTE: Intel®	Hyper-Threading ⁻	Technology is only a	available on Perform	ance-cores.		
Processor speed	Up to 4.5 GHz	Up to 4.6 GHz	Up to 4.8 GHz	Up to 5 GHz	Up to 5.2 GHz, Turbo Boost Max	3.7 GHz
Performance-core	es frequency			•	•	
Processor base frequency	3.4 GHz	2.5 GHz	2.5 GHz	2.7 GHz	2.1 GHz	3.7 GHz
Maximum turbo frequency	4.5 GHz	4.6 GHz	4.8 GHz	5 GHz	5.1 GHz	Not applicable
Efficient-cores fr	equency			•	•	
Processor base frequency	Not applicable	1.8 GHz	1.8 GHz	2 GHz	1.5 GHz	Not applicable
Maximum turbo frequency	Not applicable	3.3 GHz	3.5 GHz	3.7 GHz	4.1 GHz	Not applicable
Processor cache	12 MB	20 MB	24 MB	24 MB	30 MB	6 MB
Integrated graphics	Intel UHD Graphics 730	Intel UHD Graphics 730	Intel UHD Graphics 770	Intel UHD Graphics 770	Intel UHD Graphics 770	Intel® UHD Graphics 710

Energy Efficient processors

Table 3. Energy Efficient processors

Descriptio n	Option one	Option two	Option three	Option four	Option five	Option six	Option seven	Option eight
Processor type	12th Generation Intel Core i3-12100T	12th Generation Intel Core i5-12500T	13th Generation Intel Core i3-13100T	13th Generation Intel Core i5-13400T	13th Generation Intel Core i5-13500T, vPro	13th Generation Intel Core i5-13600T, vPro	Intel Pentium Gold G7400T	Intel Celeron G6900T
Processor wattage	35 W	35 W	35 W	35 W				
Processor total core count	4	6	4	10	14	14	2	2
Performanc e-cores	4	6	4	6	6	6	2	2
Efficient- cores	Not applicable	Not applicable	Not applicable	4	8	8	Not applicable	Not applicable
Processor total thread counts	8	12	8	16	20	20	4	2
Processor speed	Up to 4.1 GHz	Up to 4.4 GHz	Up to 4.2 GHz	Up to 4.4 GHz	Up to 4.6 GHz	Up to 4.8 GHz	Up to 3.1 GHz	Up to 2.8 GHz
Processor base frequency	2.2 GHz	2 GHz	2.5 GHz	1.3 GHz	1.6 GHz	1.8 GHz	3.1 GHz	2.8 GHz
Maximum turbo frequency	4.1 GHz	4.4 GHz	4.2 GHz	4.4 GHz	4.6 GHz	4.8 GHz	Not applicable	Not applicable
Processor base frequency	Not applicable	Not applicable	Not applicable	1 GHz	1.2 GHz	1.3 GHz	Not applicable	Not applicable
Maximum turbo frequency	Not applicable	Not applicable	Not applicable	3 GHz	3.2 GHz	3.4 GHz	Not applicable	Not applicable
Processor cache	12 MB	18 MB	12 MB	20 MB	24 MB	24 MB	6 MB	4 MB
Integrated graphics	Intel UHD Graphics 730	Intel UHD Graphics 770	Intel UHD Graphics 730	Intel UHD Graphics 730	Intel UHD Graphics 770	Intel UHD Graphics 770	Intel UHD Graphics 710	Intel UHD Graphics 710

Chipset

The following table lists the details of the chipset supported by your OptiPlex All-in-One 7410.

Table 4. Chipset

Description	Values
Chipset	Q670
Processor	 12th Generation Intel Core i3T/i5T 13th Generation Intel Core i3T/i5T/i5T vPro 13th Generation Intel Core i3/i5/i5 vPro/i7 vPro Intel Pentium Gold Intel Celeron
DRAM bus width	64-bit
Flash EPROM	32 MB + 16 MB
PCle bus	Up to Gen3

Operating system

Your OptiPlex All-in-One 7410 supports the following operating systems:

- Windows 11 Home, 64-bit
- Windows 11 Pro, 64-bit
- Windows 11 Pro Downgrade (Windows 10 image)
- Windows 11 Pro National Education, 64-bit
- Windows 10 CMIT Government Edition (China only)
- Ubuntu Linux 22.04 LTS, 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 11 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 11 version (N) and qualify (but not ship) the previous two versions (N-1, N-2). The OptiPlex All-in-One 7410 will RTS with Windows 11 version v20H2 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 11, Dell continues to test the commercial platform with coming Windows 11 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.

EOML 411

The OptiPlex All-in-One 7410 continues to test the coming Semi-Annual Channel Windows 11 version releases for five years post-production, including both fall and spring releases from Microsoft.

Memory

The following table lists the memory specifications of your OptiPlex All-in-One 7410.

Table 5. Memory specifications

Description	Values
Memory slots	Two SoDIMM slots
Memory type	 DDR4 ,only for computers shipped with Energy Efficient processors DDR5, only for computers shipped with High Performance processors
Memory speed	3200 MT/s, only for computers shipped with Energy Efficient processors 4800 MT/s, only for computers shipped with High Performance processors
Maximum memory configuration	64 GB
Minimum memory configuration	 4 GB, only for computers shipped with Energy Efficient processors 8 GB, only for computers shipped with High Performance processors
Memory size per slot	For computers shipped with Energy Efficient processors: • 4 GB, 8 GB, 16 GB, or 32 GB For computers shipped with High Performance processors: • 8 GB, 16 GB, or 32 GB
Memory configurations supported	For computers shipped with Energy Efficient processors: 4 GB, 1 x 4 GB, DDR4, 3200 MT/s 8 GB, 1 x 8 GB, DDR4, 3200 MT/s 16 GB, 1 x 16 GB, DDR4, 3200 MT/s 16 GB, 2 x 8 GB, DDR4, 3200 MT/s, dual-channel 32 GB, 1 x 32 GB, DDR4, 3200 MT/s, dual-channel 4 GB, 2 x 32 GB, DDR4, 3200 MT/s, dual-channel 64 GB, 2 x 32 GB, DDR4, 3200 MT/s, dual-channel For computers shipped with High Performance processors: 8 GB, 1 x 8 GB, DDR5, 4800 MT/s 16 GB, 2 x 8 GB, DDR5, 4800 MT/s, dual-channel 32 GB, 1 x 32 GB, DDR5, 4800 MT/s, dual-channel 32 GB, 1 x 32 GB, DDR5, 4800 MT/s, dual-channel 64 GB, 2 x 32 GB, DDR5, 4800 MT/s, dual-channel 64 GB, 2 x 32 GB, DDR5, 4800 MT/s, dual-channel

External ports

The following table lists the external ports of your OptiPlex All-in-One 7410.

Table 6. External ports

Description	Values
Network port	One RJ45 Ethernet Port 10/100/1000 Mbps
USB ports	For computers shipped with Energy Efficient processors: One USB 3.2 Gen 2 port with PowerShare One USB 3.2 Gen 2 Type-C port Two USB 3.2 Gen 1 ports Two USB 2.0 ports with Smart Power On For computers shipped with High Performance processors: One USB 3.2 Gen 2 port with PowerShare One USB 3.2 Gen 2 Type-C port Two USB 3.2 Gen 2 ports Two USB 3.2 Gen 1 ports with Smart Power On
Audio port	One universal audio portOne audio line-out port, retaskable
Video port	 One DisplayPort++ 1.4a port One HDMI-in 1.4b, only for computers shipped with High Performance processors One HDMI-out 2.1, only for computers shipped with High Performance processors
Media-card reader	One SD-card slot
Power-adapter port	 One power-adapter port, only for computers shipped with Energy Efficient processors One power-cable connector, only for computers shipped with High Performance processors
Security-cable slot	One security-cable slot (3 mm x 7 mm, T-Bar design)

Internal slots

The following table lists the internal slots of your OptiPlex All-in-One 7410.

Table 7. Internal slots

Description	Values
M.2	For computers shipped with Energy Efficient processors:
	 One M.2 2230 slot for WiFi and Bluetooth combo card One M.2 2230/2280 slot for solid-state drive
	For computers shipped with High Performance
	processors:
	 One M.2 2230 slot for WiFi and Bluetooth combo card
	Two M.2 2230/2280 slots for solid-state drive

Table 7. Internal slots (continued)

Description	Values		
	NOTE: To learn more about the features of different types of M.2 cards, search in the Knowledge Base Resource at www.dell.com/support.		
SATA	One SATA slot for 2.5-inch hard drive, only for computers shipped with Energy Efficient processors		

Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your OptiPlex All-in-One 7410.

Table 8. Ethernet specifications

Description	Values
Model number	Intel i219-LM
Transfer rate	10/100/1000 Mbps

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module specifications of your OptiPlex All-in-One 7410.

Table 9. Wireless module specifications

Description	Option one	Option two	Option three	
Model number	AX201 Intel AX211		Realtek RTL8852BE	
Transfer rate	Up to 2400 Mbps Up to 2400 Mbps		Up to 1201 Mbps	
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz/6 GHz	2.4 GHz/5 GHz	
Wireless standards	 Wi-Fi 802.11a/b/g Wi-Fi 4 (WiFi 802.11n) Wi-Fi 5 (WiFi 802.11ac) Wi-Fi 6 (WiFi 802.11ax) 	 Wi-Fi 802.11a/b/g Wi-Fi 4 (WiFi 802.11n) Wi-Fi 5 (WiFi 802.11ac) Wi-Fi 6E (WiFi 802.11ax) 	 Wi-Fi 802.11a/b/g Wi-Fi 4 (WiFi 802.11n) Wi-Fi 5 (WiFi 802.11ac) Wi-Fi 6 (WiFi 802.11ax) 	
Encryption	64-bit/128-bit WEPAES-CCMPTKIP	64-bit/128-bit WEPAES-CCMPTKIP	64-bit/128-bit WEP AES-CCMP TKIP	
Bluetooth	Bluetooth wireless card	Bluetooth wireless card	Bluetooth wireless card	

Audio

The following table lists the audio specifications of your OptiPlex All-in-One 7410.

Table 10. Audio specifications

Description		Values
Audio controller		 Realtek ALC3246, only for computers shipped with Energy Efficient processors Realtek ALC3289, only for computers shipped with High Performance processors
Stereo conversion		Supported
Internal audio interface	9	High-definition audio interface
External audio interface		One universal audio portOne audio line-out port, retaskable
Number of speakers		Two stereo speakers
Internal-speaker amplifier		 Supported for computers shipped with Energy Efficient processors Realtek Amplifier ALC1302, only for computers shipped with High Performance processors
External volume contro	ols	Not supported
Speaker output:		
Average speaker output		2 W
Peak speaker output		2.5 W
Subwoofer output		Not supported
Microphone		Two microphones in the retractable-camera assembly

Storage

This section lists the storage options on your OptiPlex All-in-One 7410.

Your OptiPlex All-in-One 7410 supports one of the following storage configurations:

- One M.2 2230/2280 solid-state drive
- One M.2 2230/2280 solid-state drives + one 2.5-inch hard-disk drive, only for computers shipped with Energy Efficient processors
- One 2.5-inch hard-drive, only for computers shipped with Energy Efficient processors
- Two M.2 2230/2280 solid-state drives, only for computers shipped with High Performance processors

The primary drive of your OptiPlex All-in-One 7410 varies with the storage configuration. For computers:

- with an M.2 drive, the M.2 drive is the primary drive
- without an M.2 drive, the 2.5-inch hard drive is the primary drive

Table 11. Storage specifications

Storage type	Interface type	Capacity
2.5-inch hard-disk drive	SATA AHCI, up to 6 Gbps	Up to 1 TB

Table 11. Storage specifications (continued)

Storage type	Interface type	Capacity
(i) NOTE: Only available on computers shipped with Energy Efficient processors.		
M.2 2230 solid-state drive, Class 35	PCle Gen3 x4 NVMe, up to 64 Gbps	Up to 1 TB
M.2 2280 solid-state drive, Class 40	PCle Gen3 x4 NVMe, up to 64 Gbps	Up to 2 TB
M.2 2230 solid-state drive, self- encrypting, Class 35	PCIe Gen3 x4 NVMe, up to 64 Gbps	Up to 256 GB
M.2 2280 solid-state drive, self- encrypting, Class 40	PCIe Gen3 x4 NVMe, up to 64 Gbps	Up to 1 TB

Media-card reader

The following table lists the media cards supported by your OptiPlex All-in-One 7410.

Table 12. Media-card reader specifications

Description	Values	
Media-card type	One SD-card slot	
Media-cards supported	 Secure Digital (SD) Secure Digital High Capacity (SDHC) Secure Digital Extended Capacity (SDXC) 	
NOTE: The maximum capacity supported by the media-card reader varies depending on the standard of the media card installed in your computer.		

Camera

The following table lists the camera specifications of your OptiPlex All-in-One 7410.

Table 13. Camera specifications

Desc	ription	Values	
Num	ber of cameras	One	
Camera type		FHD RGB camera	
Camera location		Retractable camera	
Came	era sensor type	CMOS sensor technology	
Camera resolution:			
	Still image	2.07 megapixel	
	Video	1920 x 1080 (FHD) at 30 fps	
Diagonal viewing angle:		82 degrees	

Power

The following table lists the power adapter specifications of your OptiPlex All-in-One 7410.

Power adapter

i NOTE: The power adapter specification is only applicable to computers shipped with Energy Efficient processors.

Table 14. Power adapter specifications

Description		Option one	Option two	
Туре		130 W AC adapter	180 W AC adapter	
Connector d	imensions:	'		
Extern	nal diameter	7.40 mm (0.29 in.)	7.40 mm (0.29 in.)	
Interna	al diameter	5.10 mm (0.20 in.)	5.10 mm (0.20 in.)	
Power-adapt	ter dimensions:			
Height	t	154.70 mm (6.09 in.)	155 mm (6.10 in.)	
Width		76.20 mm (3 in.)	76.20 mm (3 in.)	
Depth		25.4 mm (1 in.)	30 mm (1.18 in.)	
Input voltage		100 VAC-240 VAC	100 VAC-240 VAC	
Input frequency		50 Hz-60 Hz	50 Hz-60 Hz	
Input current (maximum)		2.50 A	2.34 A	
Output current (continuous)		6.70 A	9.23 A	
Rated output voltage		19.50 VDC	19.50 VDC	
Temperature	e range:			
Operating		0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)	
Storage		-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	

CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.

Power-supply unit

i NOTE: The power rating specification is only applicable to computers shipped with High Performance processors.

Table 15. Power rating

Description	Values	
Туре	160 W internal power supply unit (PSU), 80 Plus Bronze	
Input voltage	90 VAC-264 VAC	

Table 15. Power rating (continued)

Descripti	on	Values	
Input frequ	uency	47 Hz-63 Hz	
Input curre	ent (maximum)	2.80 A	
Output current (continuous)		Operating: • 19.50 VA: 7 A • 19.50 VB: 5 A Standby: • 19.50 VA: 0.50 A • 19.50 VB: 1.75 A	
Rated output voltage		19.50 VA19.50 VB	
Temperatu	ure range:		
Ор	erating	5°C to 42°C (41°F to 107.6°F)	
Sto	orage	-40°C to 70°C (-40°F to 158°F)	

Power supply connector

The following table lists the Power supply connector specifications of your OptiPlex All-in-One 7410.

Table 16. Power supply connector

160 W internal power supply unit (PSU), 80 Plus Bronze	One 8-pin connector for processor
	One 6-pin connector for system board
	One 6-pin connector for control signal
	One 2-pin connector for LED

Display

The following table lists the display specifications of your OptiPlex All-in-One 7410.

Table 17. Display specifications

Description		Option one Option two	
Display type		Full High Definition (FHD), ComfortView Plus	Full High Definition (FHD), ComfortView Plus
Touch options		No	Touch support, with 10 touch points
Display-panel technology		In-Plane Switching (IPS)	In-Plane Switching (IPS)
Display-pane	el 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.)
Display-panel native resolution		1920 x 1080	1920 x 1080

Table 17. Display specifications (continued)

Description	Option one Option two		
Luminance (typical)	250 nits	300 nits	
Megapixels	2.07	2.07	
Color gamut	99% (sRGB)	99% (sRGB)	
Pixels Per Inch (PPI)	92	92	
Contrast ratio (min.)	700:1, minimum1000:1, typical	700:1, minimum1000:1, typical	
Response time (max.)	25 ms, minimum14 ms, typical	20 ms, minimum 14 ms, typical	
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	0.27 mm	0.27 mm	
Power consumption (maximum)	14.11 W	17.26 W	
Anti-glare vs glossy finish	Anti-glare	Anti-glare	

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your OptiPlex All-in-One 7410.

Table 18. GPU—Integrated

Controller	External display support	Memory size	Processor
Intel UHD Graphics 710	 One DisplayPort++ 1.4a port (5120 x 3200 at 60 Hz) One HDMI-out 2.1 port (4096 x 2160 at 60 Hz), only for computers shipped with High Performance processors 	Shared system memory	Intel Pentium GoldIntel Celeron
Intel UHD Graphics 730	 One DisplayPort++ 1.4a port (5120 x 3200 at 60 Hz) One HDMI-out 2.1 port (4096 x 2160 at 60 Hz), only for computers shipped with High Performance processors 	Shared system memory	 12th Generation Intel Core i3T 13th Generation Intel Core i3/i3T/i5/i5T

Table 18. GPU—Integrated (continued)

Controller	External display support	Memory size	Processor
Intel UHD Graphics 770	 One DisplayPort++ 1.4a port (5120 x 3200 at 60 Hz) One HDMI-out 2.1 port (4096 x 2160 at 60 Hz), only for computers shipped with High Performance processors 	Shared system memory	 12th Generation Intel Core i5T 13th Generation Intel Core i5 vPro/i5T vPro/i7 vPro

Hardware security

The following table lists the hardware security of your OptiPlex All-in-One 7410.

Table 19. Hardware security

Hardware security
Kensington security-cable slot
Chassis intrusion switch
Trusted Platform Module (Discrete TPM Enabled)
SafeBIOS including Dell Off-host BIOS Verification
BIOS Resilience
BIOS Recovery, and additional BIOS Controls
SafeID including Trusted Platform Module (TPM) 2.0
Self-Encrypting Drives (SED)
D-Pedigree (Secure Supply Chain Functionality)

Environmental

The following table lists the environmental specifications of your OptiPlex All-in-One 7410.

Table 20. Environmental

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

Operating and storage environment

This table lists the operating and storage specifications of your OptiPlex All-in-One 7410.

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

Table 21. Computer environment

Description	Operating	Storage
Temperature range	0°C to 35°C (32°F to 95°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	10% to 90% (non-condensing)	0% to 95% (non-condensing)
Vibration (maximum)*	0.26 GRMS	1.30 GRMS
Shock (maximum)	40 G†	160 G†
Altitude range	-15.2 m to 3048 m (-49.87 ft to 10000 ft)	-15.2 m to 10668 m (-49.87 ft to 35000 ft)

CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.

 $[\]ensuremath{^{*}}$ Measured using a random vibration spectrum that simulates user environment.

[†] Measured using a 2 ms half-sine pulse.

Engineering specifications

Physical system dimensions

The following table provides the physical dimensions of your OptiPlex All-in-One 7410.

NOTE: System weight and shipping weight are based on a typical configuration and may vary based on your system configuration. A typical configuration includes integrated graphics, one hard drive, and one optical drive.

Table 22. Physical system dimensions

Feature	Values	
Non-touch chassis dimensions (system without stand)		
Height	354.3 mm (13.95 in.)	
Width	540 mm (21.26 in.)	
Depth	57.9 mm (2.28 in.)	
Maximum weight	6.32 kg (13.93 lb)	
Minimum weight	5.61 kg (12.37 lb)	
Touch chassis dimensions (system without stand)		
Height	354.3 mm (13.95 in.)	
Width	540 mm (21.26 in.)	
Depth	57.90 mm (2.28 in.)	
Maximum weight	6.32 kg (13.93 lbs)	
Minimum weight	5.61 kg (12.37 lb)	
Basic fixed stand dimensions		
Height	224 mm (8.82 in.)	
Width	234 mm (9.21 in.)	
Depth	179.70 mm (7.07 in.)	
Weight	1.90 kg (4.18 lb)	
Height adjustable stand dimensions		
Height	366 mm (14.41 in.)	
Width	288 mm (11.34 in.)	
Depth	220 mm (8.66 in.)	
Weight	2.87 kg (6.32 lb)	
Packaging parameters with basic fixed stand (includes packaging material)		
Height	798 mm (31.42 in.)	
Width	495 mm (19.49 in.)	
Depth	193 mm (7.60 in.)	
Shipping weight (including packaging materials)	12.04 kg (26.54 lb)	

Table 22. Physical system dimensions (continued)

Feature	Values
Packaging parameters with height adjustable stand	
Height	798 mm (31.42 in.)
Width	495 mm (19.49 in.)
Depth	193 mm (7.60 in.)
Shipping weight (including packaging materials)	12.96 kg (28.57 lb)

Add-in card dimensions

Slot limitations

The following table lists the system board connector maximum add-in card allowable dimensions of your OptiPlex All-in-One 7410.

Table 23. M.2 2230 slot for Wi-Fi card

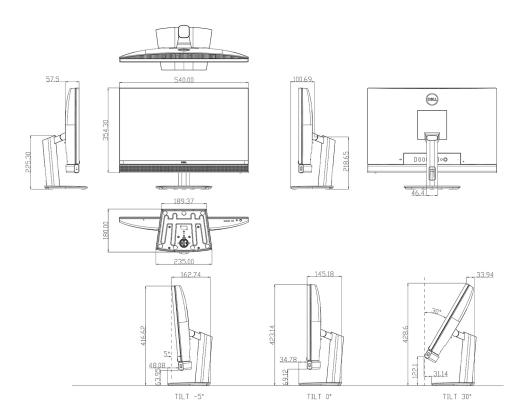
Voltage	3.3 V
Width	0.86 in. (22 mm)
Length	1.18 in. (30 mm)
Thickness	0.14 in. (3.65 mm)
Maximum wattage	6.6 W

Table 24. M.2 2230/2280 slot for solid-state drive

Voltage	3.3 V
Width	0.86 in. (22 mm)
Length	2230: 1.18 in. (30.00 mm)2280: 3.15 in. (80.00 mm)
Thickness	0.14 in. (3.65 mm)
Maximum Wattage	8.25 W

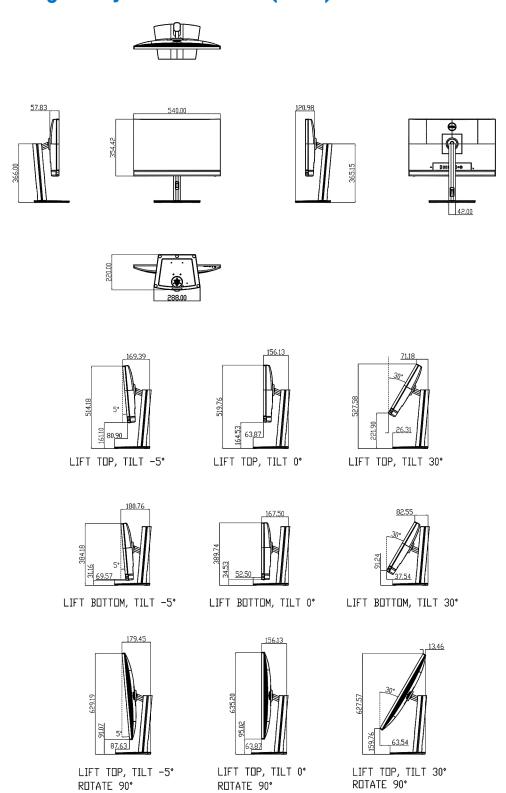
Stands and mounts

Fixed stand



i NOTE: The unit of measurements is in millimeter (mm).

Height Adjustable Stand (HAS)



NOTE: The unit of measurements is in millimeter (mm).

ROTATE 90°

ROTATE 90°

(i) NOTE: The Height Adjustable Stand can go up and down by up to 100 mm, swivel left/right up to 45 degrees, and pivot up to 90 degrees.

VESA mount

The VESA mount compatibility for OptiPlex All-in-One 7410 is 100x100 mm.



Ethernet

Intel Ethernet Connection i219-LM

The following table lists the i219-LM specifications.

Table 25. Intel Ethernet Connection i219-LM specifications

Feature	Values
External connector type	RJ45
Data rate	10/100/1000 Mbps
Controller Details	
Controller bus architecture	PCI Express base specification revision 1.1
Integrated memory	Yes
Data transfer mode	Yes (Bus-Master DMA)
Power consumption (Full operation per data rate connection speed)	542 mW (Max)
Power consumption (Standby operation)	76 mW (Max)
IEEE standards compliance	802.3
Hardware certifications	N/A
Boot ROM support	EEPROM (Located in SPI)
Network Transfer Mode	
10BASE-T (full/half-duplex)	10 Mbps
100BASE-TX (full/half-duplex)	100 Mbps

Table 25. Intel Ethernet Connection i219-LM specifications (continued)

Feature	Values
1000BASE-T (full-duplex)	1000 Mbps
Environmental	
Operating temperature range	0°C-85°C (32°F-185°F)
Operating humidity	20% to 80% (non condensing)
Operating system driver Support	Windows (x64)Ubuntu
Manageability	Wakeup On LANPXE 2.1
Management capabilities alerting	Optional Intel Standard Manageability (must be made at time of purchase).
Supported under Intel vPro technology	Yes (Bus-Master DMA)

This term does not connote an actual operating speed of 1 Gb/sec. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

Wireless module

Intel AX201, 2x2 MIMO, 2400 Mbps, 2.40 GHz /5 GHz, Wi-Fi 6 (WiFi 802.11ax), Bluetooth 5.2

The following table lists the Intel Intel AX201 specifications.

Table 26. Intel AX201 specifications

Host interface	CNVi2 (Connectivity Integration 2 nd generation)	
Network standard	IEEE 802.11a/b/g/n/ac/ax, 160 MHz channel use, MU-MIMO	
Wi-Fi Alliance certifications	 Wi-Fi CERTIFIED 6 Wi-Fi CERTIFIED a/b/g/n/ac WMM WMM-Power Save WPA2 WPA3 WPS Protected Management Frames Wi-Fi Direct Wi-Fi Agile Multiband 	
Operating frequency bands	2.4 GHz5 GHz	
Data rate	 2.4 GHz 40M: Up to 574 Mbps 5 GHz 80M: Up to 1.2 Gbps 5 GHz 160M: Up to 2.4 Gbps 	
Power consumption	Optimized power modes (sleep states) reduce power consumption during periods of inactivity	
Security methods	WPA2 Personal and EnterpriseWPA3	

Table 26. Intel AX201 specifications (continued)

Authentication protocols	 802.1X EAP-TLS EAP-TTLS/MSCHAPv2 PEAPv0 -MSCHAPv2 (EAP-SIM, EAP-AKA)
Encryption	 64-bit and 128-bit WEP TKIP 128-bit AES-CCMP 256-bit AES-GCMP
Product safety	ULC-ULCB (IEC60950-1)
Management capabilities alerting	Support for Intel AMT
Government compliance	FIPS 140-2FISMA
Client utility	Intel PRO/Set wireless software v21 and later
Antenna diversity	Supported
Radio On/Off	Supported
Roaming	Support seamless roaming between access points
Wake on wireless	supported
Wireless display	Native Miracast support by Windows
Wireless PAN standard	Dual Mode Bluetooth 5.2BLE
Bluetooth data rates	Up to 3 Mbps
Bluetooth operating frequency bands	2.4 GHz
Bluetooth profiles supported	Support for Microsoft Inbox Bluetooth profiles in Windows
Bluetooth data encryption	128-bit encryption
Bluetooth output power	Power class 1
Operating temperature	0°C to + 50°C (Full performance at shield temperatures up to 80°C)
Storage temperature	-40°C to +70°C
Humidity	Up to 90% RH non-condensing (at temperatures of 25° C to 35° C)

Intel AX211, 2x2 MIMO, 2400 Mbps, 2.4/5/6 GHz, Wi-Fi 6E (WiFi 802.11ax), Bluetooth 5.3

The following table lists the Intel AX211 specifications.

NOTE: Wi-Fi 6 is supported in regions where Wi-Fi 6E is unavailable.

Table 27. Intel AX211 specifications

Host interface	CNVio
	IEEE 802.11a/b/g/n/ac/ax, 160 MHz channel use, MU-MIMO, new 6 GHz band

Table 27. Intel AX211 specifications (continued)

Wi-Fi Alliance certifications	I
WI-FI Alliance certifications	Wi-Fi CERTIFIED 6, Wi-Fi CERTIFIED a/b/g/n/ac,WMM, WMM-Power Save, WPA2, WPA3, WPS, PMF,Wi-Fi Direct, Wi-Fi Agile Multiband
	(i) NOTE: Other names and brands may be claimed as the property of others.
Operating frequency bands	2.4 GHz5 GHz6 GHz
Data rate	 2.4 GHz 40M: Up to 574 Mbps 5/6 GHz 80M: Up to 1.2 Gbps 5/6 GHz 160M: Up to 2.4 Gbps
Power consumption	Optimized power modes (sleep states) reduce power consumption during periods of inactivity
Security methods	WPA2 Personal and EnterpriseWPA3
Authentication protocols	 802.1X EAP-TLS EAP-TTLS/MSCHAPv2 PEAPv0 -MSCHAPv2 (EAP-SIM, EAP-AKA, EAP-AKA)
Encryption	 64-bit and 128-bit WEP TKIP 128-bit AES-CCMP 256-bit AES-GCMP
Product safety	ULC-ULCB (IEC60950-1)
Management capabilities alerting	Support for Intel AMT
Government compliance	FIPS 140-2FISMA
Client utility	Intel PRO/Set wireless software v22 and later
Antenna diversity	Supported
Radio On/Off	Supported
Roaming	Support seamless roaming between access points
Wake on wireless	Supported
Wireless display	Native Miracast support by Windows
Wireless PAN standard	Dual Mode Bluetooth 5.3BLE
Bluetooth data rates	Up to 3 Mbps
Bluetooth operating frequency bands	2.4 GHz
Bluetooth profiles supported	Support for Microsoft Inbox Bluetooth profiles in Windows
Bluetooth data encryption	128-bit encryption
Bluetooth output power	Power class 1
Operating temperature	0°C to + 50°C (Full performance at shield temperatures up to 80°C)
Storage temperature	-40°C to +70°C
	·

Table 27. Intel AX211 specifications (continued)

I	Up to 90% RH non-condensing (at temperatures of 25°C to 35°C)

Realtek RTL8852BE, 2x2, Wi-Fi 6 (Wi-Fi 802.11 a/b/g/n/ac/ax), Bluetooth 5.3

The following table lists the Realtek RTL8852BE specifications.

Table 28. Realtek RTL8852BE specifications

Host interface	Wi-Fi - PCleBluetooth - USB	
Network standard	IEEE 802.11a/b/g/n/ac/ax, MU-MIMO	
Wi-Fi Alliance certifications	 Wi-Fi certified a/b/g/n/ac/ax WMM* WPA WPA2* WPA3* Wi-Fi Direct (Windows only) 	
Operating frequency bands	2.4 GHz5 GHz	
Data rate	2.4 GHz 40M: Up to 574 Mbps5 GHz 80M: Up to 1201 Mbps	
	Optimized power modes (sleep states) reduce power consumption during periods of inactivity	
Authentication	WPA* and WPA2* Personal and EnterpriseWPA3* Personal and Enterprise	
Client utility	Native Wi-Fi and Bluetooth Microsoft UI support	
Software support	Microsoft WHQL certified for WindowsLinux	
Radio On/Off	Supported	
Roaming	Support seamless roaming between access points	
Wake on wireless	Supported	
Wireless display	Native Miracast support by Windows	
Wireless PAN standard	Dual Mode Bluetooth 5.3BLE	
Bluetooth data rates	Up to 3 Mbps	
Bluetooth operating frequency bands	2.4 GHz	
Bluetooth profiles supported	Support for Microsoft Inbox Bluetooth profiles in Windows	
Bluetooth data encryption	128-bit encryption	
Operating temperature	0°C to + 70°C	
Storage temperature	-40°C to +85°C	
Storage temperature -40°C to +85°C i NOTE: *Other names and brands may be claimed as the property of others		

GPU—Integrated

Intel UHD Graphics 710

Table 29. Intel UHD Graphics 710

Feature	Specifications
Bus type	Integrated
Memory type	Shared memory
Graphics level	Intel Pentium/Celeron
Estimated Maximum Power Consumption (TDP)	35 W/46 W
Overlay planes	Yes
Operating systems graphics/video API support	DirectX 12, OpenGL (4.6)
Maximum vertical refresh rate	 On-board integrated DP1.4a HBR3 (5120 x 3200 at 60 Hz) On-board integrated HDMI 2.1 (4096 x 2160 at 60 Hz), for computers shipped with High Performance processors
External ports	 One DisplayPort 1.4a port One HDMI 2.1 port, only for computers shipped with High Performance processors
Multiple display support	With 2 displays
	 Internal FHD panel (1920 x 1080 at 60 Hz) + On-board integrated DP1.4a HBR3 (5120 x 3200 at 60 Hz) Internal FHD panel (1920 x 1080 at 60 Hz) + On-board integrated HDMI 2.1 (4096 x 2160 at 60 Hz), only for computers shipped with High Performance processors

Intel UHD Graphics 730

Table 30. Intel UHD Graphics 730

Feature	Specifications
Bus type	Integrated
Memory type	Shared memory
Graphics level	Intel Core i3/i3T/i5/i5T
Estimated Maximum Power Consumption (TDP)	35 W/65 W
Overlay planes	Yes
Operating systems graphics/ video API support	DirectX 12, OpenGL (4.6)
Maximum vertical refresh rate	 On-board integrated DP1.4a HBR3 (5120 x 3200 at 60 Hz) On-board integrated HDMI 2.1 (4096 x 2160 at 60 Hz), for computers shipped with High Performance processors
External ports	 One DisplayPort 1.4a port One HDMI 2.1 port, for computers shipped with High Performance processors
Multiple display support	(i) NOTE: The HDMI 2.1 port is only available on computers shipped with High Performance Processors
	With 2 displays

Table 30. Intel UHD Graphics 730 (continued)

Feature	Specifications
	 Internal FHD panel (1920 x 1080 at 60 Hz) + On-board integrated DP1.4a HBR3 (5120 x 3200 at 60 Hz) Internal FHD panel (1920 x 1080 at 60 Hz) + On-board integrated HDMI 2.1 (4096 x 2160 at 60 Hz)
	With 3 displays ■ Internal FHD panel (1920 x 1080 at 60 Hz) + On-board integrated DP1.4a HBR3 (5120 x 3200 at 60 Hz) + On-board integrated HDMI 2.1 (4096 x 2160 at 60 Hz)

Intel UHD Graphics 770

Table 31. Intel UHD Graphics 770

Feature	Specifications
Bus type	Integrated
Memory type	Shared memory
Graphics level	Intel Core i5 vPro/i5T vPro/i7 vPro
Estimated Maximum Power Consumption (TDP)	35W/65 W
Overlay planes	Yes
Operating systems graphics/ video API support	DirectX 12, OpenGL (4.6)
Maximum vertical refresh rate	 On-board integrated DP1.4a HBR3 (5120 x 3200 at 60 Hz) On-board integrated HDMI 2.1 (4096 x 2160 at 60 Hz), only on computers shipped with High Performance processors
External ports	 One DisplayPort 1.4a port One HDMI 2.1 port, only on computers shipped with High Performance processors
Multiple display support	(i) NOTE: The HDMI 2.1 port is only available on computers shipped with High Performance Processors
	 With 2 displays Internal FHD panel (1920 x 1080 at 60 Hz) + On-board integrated DP1.4a HBR3 (5120 x 3200 at 60 Hz) Internal FHD panel (1920 x 1080 at 60 Hz) + On-board integrated HDMI 2.1 (4096 x 2160 at 60 Hz) With 3 displays Internal FHD panel (1920 x 1080 at 60 Hz) + On-board integrated DP1.4a HBR3 (5120 x 3200 at 60 Hz) + On-board integrated HDMI 2.1 (4096 x 2160 at 60 Hz)

Video port and resolution matrix

The following table lists the Video port and resolution matrix of your OptiPlex All-in-One 7410.

Table 32. Video port and resolution matrix

Port type	DisplayPort++ 1.4a/HDCP 2.3 port (UMA Graphics)	HDMI-OUT port—HDMI 2.1 (UMA Graphics)
Maximum resolution— single display	5120 x 3200 at 60 Hz	4096 x 2160 at 60 Hz

Table 32. Video port and resolution matrix (continued)

Port type	DisplayPort++ 1.4a/HDCP 2.3 port (UMA Graphics)	HDMI-OUT port—HDMI 2.1 (UMA Graphics)
Maximum resolution—dual MST	3840 x 2160 at 60 Hz, 3840 x 2160 at 60 Hz	Not applicable
Maximum resolution— triple MST	2560 x 1600 at 60 Hz, 2560 x 1600 at 60 Hz, 2560 x 1600 at 60 Hz	Not applicable

Storage

M.2 2230, 256 GB, PCIe NVMe Gen4 x4, Class 35 SSD

The following table lists the M.2 2230, 256 GB SSD specifications.

Table 33. 256 GB SSD specifications

- Laboratoria de Constitución		
Capacity	256 GB	
Height (approximate)	3.5 mm (0.17 in.)	
Width (approximate)	22.00 mm (0.87 in.)	
Depth (approximate)	30.00 mm (1.18 in.)	
Interface type	PCle Gen4	
Speed (maximum)	64 Gb/s (up to 4 lanes)	
MTTF	1.4M hours	
Logical blocks	500,118,192	
Power source		
Power consumption (reference only)	Idle: 5 mW (PS4)Active: 4 W	
Environmental operating conditions (non-condensing)		
Temperature range	0°C to 70°C	
Relative humidity range	10% to 90%	
Op shock	1500G	
Environmental non-operating conditions (non-condensing)		
Temperature range	-40°C to 70°C	
Relative humidity range	5% to 95%	

M.2 2230, 512 GB, PCIe NVMe Gen4 x4, Class 35 SSD

The following table lists the M.2 2230, 512 GB SSD specifications.

Table 34. 512 GB SSD specifications

Capacity	512 GB
Height (approximate)	3.5 mm (0.17 in.)
Width (approximate)	22.00 mm (0.87 in.)
Depth (approximate)	30.00 mm (1.18 in.)

Table 34. 512 GB SSD specifications (continued)

Interface type	PCle Gen4	
Speed (maximum)	64 Gb/s (up to 4 lanes)	
MTTF	1.4M hours	
Logical blocks	1,000,215,216	
Power source		
Power consumption (reference only)	• Idle: 5 mW (PS4)	
	Active: 4 W	
Environmental operating conditions (non-condensing)		
Temperature range	0°C to 70°C	
Relative humidity range	10% to 90%	
Op shock	1500G	
Environmental non-operating conditions (non-condensing)		
Temperature range	-40°C to 70°C	
Relative humidity range	5% to 95%	

M.2 2230, 1 TB, PCIe NVMe Gen4 x4, Class 35 SSD

The following table lists the M.2 2230, 1 TB SSD specifications.

Table 35. 1 TB SSD specifications

Capacity	1 TB	
Height (approximate)	3.5 mm (0.17 in.)	
Width (approximate)	22.00 mm (0.87 in.)	
Depth (approximate)	30.00 mm (1.18 in.)	
Interface type	PCIe Gen4	
Speed (maximum)	64 Gb/s (up to 4 lanes)	
MTBF	1.4M hours	
Logical blocks	2,000,409,264	
Power source		
Power consumption (reference only)	• Idle: 5 mW (PS4)	
	Active: 4 W	
Environmental operating conditions (non-condensing)		
Temperature range	0°C to 70°C	
Relative humidity range	10% to 90%	
Op shock	1500G	
Environmental non-operating conditions (non-condensing)		
Temperature range	-40°C to 70°C	
Relative humidity range	5% to 95%	

M.2 2230, 256 GB, PCle NVMe Gen4 x4, Opal Self-Encrypting, Class 35 SSD

The following table lists the M.2 2230, 256 GB SSD specifications.

Table 36. 256 GB SSD, self-encrypting drive specifications

Capacity	256 GB	
Height (approximate)	2.38 mm (0.09 in.)	
Width (approximate)	22.00 mm (0.87 in.)	
Depth (approximate)	30.00 mm (1.18 in.)	
Interface type	PCIe Gen4	
Speed (maximum)	64 Gb/s (up to 4 lanes)	
MTBF	1.4M hours	
Logical blocks	500,118,192	
Power source		
Power consumption (reference only)	Idle: 5 mW (PS4) Active: 4 W	
Environmental operating conditions (non-condensing)		
Temperature range	0°C to 70°C	
Relative humidity range	10% to 90%	
Op shock	1500G	
Environmental non-operating conditions (non-condensing)		
Temperature range	-40°C to 70°C	
Relative humidity range	5% to 95%	

M.2 2280, 512 GB, PCIe NVMe Gen4 x4, Class 40 SSD

The following table lists the M.2 2280, 512 GB SSD specifications.

Table 37. 512 GB SSD specifications

Capacity	512 GB	
Height (approximate)	2.38 mm (0.17 in.)	
Width (approximate)	22.00 mm (0.87 in.)	
Depth (approximate)	80.00 mm (3.15 in.)	
Interface type	PCIe Gen4	
Speed (maximum)	64 Gb/s (up to 4 lanes)	
MTBF	1.4M hours	
Logical blocks	1,000,215,216	
Power source		
Power consumption (reference only)	• Idle: 5 mW (PS4 - L1.2)	
	Active: 5 W	
Environmental operating conditions (non-condensing)		

Table 37. 512 GB SSD specifications (continued)

Temperature range	0°C to 70°C	
Relative humidity range	10% to 90%	
Op shock	1500G	
Environmental non-operating conditions (non-condensing)		
Temperature range	-40°C to 70°C	
Relative humidity range	5% to 95%	

M.2 2280, 1 TB, PCIe NVMe Gen4 x4, Class 40 SSD

The following table lists the M.2 2280, 1 TB SSD specifications.

Table 38. 1 TB SSD specifications

Capacity	1 TB	
Height (approximate)	2.38 mm (0.17 in.)	
Width (approximate)	22.00 mm (0.87 in.)	
Depth (approximate)	80.00 mm (3.15 in.)	
Interface type	PCIe Gen4	
Speed (maximum)	64 Gb/s (up to 4 lanes)	
MTBF	1.4M hours	
Logical blocks	2,000,409,264	
Power source		
Power consumption (reference only)	Idle: 5 mW (PS4 - L1.2)Active: 5 W	
Environmental operating conditions (non-condensing)		
Temperature range	0°C to 70°C	
Relative humidity range	10% to 90%	
Op shock	1500G	
Environmental non-operating conditions (non-condensing	1)	
Temperature range	-40°C to 70°C	
Relative humidity range	5% to 95%	

M.2 2280, 2 TB, PCIe NVMe Gen4 x4, Class 40 SSD

The following table lists the M.2 2280, 2 TB SSD specifications.

Table 39. 2 TB SSD specifications

Capacity	2 TB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22.00 mm (0.87 in.)
Depth (approximate)	80.00 mm (3.15 in.)
Interface type	PCIe Gen4

Table 39. 2 TB SSD specifications (continued)

Speed (maximum)	64 Gb/s (up to 4 lanes)	
MTBF	1.4M hours	
Logical blocks	4,000,797,360	
Power source		
Power consumption (reference only)	Idle: 5 mW (PS4 - L1.2)Active: 5 W	
Environmental operating conditions (non-condensing)		
Temperature range	0°C to 70°C	
Relative humidity range	10% to 90%	
Op shock	1500G	
Environmental non-operating conditions (non-condensing)		
Temperature range	-40°C to 70°C	
Relative humidity range	5% to 95%	

M.2 2280, 512 GB, PCIe NVMe Gen4 x4, Opal Self-Encrypting Class 40 Solid-State Drive

The following table lists the M.2 2280, 512 GB SSD, self-encrypting drive specifications.

Table 40. 512 GB SSD, self-encrypting drive specifications

Composite	E40.0D	
Capacity	512 GB	
Height (approximate)	2.38 mm (0.09 in.)	
Width (approximate)	22.00 mm (0.87 in.)	
Depth (approximate)	80.00 mm (3.15 in.)	
Interface type	PCle Gen4	
Speed (maximum)	64 Gb/s (up to 4 lanes)	
MTBF	1.4M hours	
Logical blocks	1,000,215,216	
Power source		
Power consumption (reference only)	• Idle: 5 mW (PS4 - L12)	
	Active: 5 W	
Environmental operating conditions (non-condensing)		
Temperature range	0°C to 70°C	
Relative humidity range	10% to 90%	
Op shock	1500G	
Environmental non-operating conditions (non-condensing	g)	
Temperature range	-40°C to 70°C	
Relative humidity range	5% to 95%	

M.2 2280, 1 TB, PCIe NVMe Gen4 x4, Opal Self-Encrypting Class 40 Solid-State Drive

The following table lists the M.2 2280, 1 TB SSD, self-encrypting drive specifications.

Table 41. 1 TB SSD, self-encrypting drive specifications

Capacity	1 TB	
Height (approximate)	2.38 mm (0.09 in.)	
Width (approximate)	22.00 mm (0.87 in.)	
Depth (approximate)	80.00 mm (3.15 in.)	
Interface type	PCIe Gen3	
Speed (maximum)	32 Gb/s (up to 4 lanes)	
MTBF	1.4M hours	
Logical blocks	2,000,409,264	
Power source		
Power consumption (reference only)	Idle: 5 mW (PS4 - L12)Active: 4.5 W	
Environmental operating conditions (non-condensing)		
Temperature range 0°C to 70°C		
Relative humidity range	10% to 90%	
Op shock	1500G	
Environmental non-operating conditions (non-condensing	3)	
Temperature range	-40°C to 70°C	
Relative humidity range	5% to 95%	

Media-card reader

The following table lists the media-card reader specifications of your OptiPlex All-in-One 7410.

Table 42. Media-card reader (standard offering)

Media supported (Maximum capacity supported will vary	by Flash Media Types)
Media Supported	 Secure Digital High Capacity (SDHC) Secure Digital Extended Capacity (SDXC) Secure Digital (SD) 4.0 SD UHS-I (UHS104) SD UHS-II
Support Specification Versions	Secure Digital (SD) 4.0
Power source	
Max Power Requirements	0.8 A
Supply Voltage Range	3.3 V/1.8 V
Power Consumption	Standby less than 0.08 mA at 3.3 VDC
Environmental operating conditions (Non-condensing)	
Operating Temperature Range	0°C to 70°C

Table 42. Media-card reader (standard offering) (continued)

Relative Humidity Range	95% RH—maximum	
Environmental non-operating conditions (Non-condensing)		
Operating Temperature Range -40°C to 65°C		
Relative Humidity Range	5% to 95% RH	

Power ratings

The following table lists the power ratings specifications of your OptiPlex All-in-One 7410.

Table 43. Power ratings specifications

Description	Values
Туре	160 W (80 PLUS Bronze)
Diameter (connector)	Not supported
Input voltage	90 VAC to 264 VAC
Input frequency	47 Hz to 63 Hz
Input current (maximum)	3.60 A
Output current (continuous)	 +19.50 VA/7.50 A +19.50 VB/7 A Standby mode: +19.50 VA/0.50 A +19.50 VB/1.75 A
Rated output voltage	+19.50 VA+19.50 VB
BTUs/h (based on PSU max wattage)	546
Active PFC	APFC Power Supply is offered with OptiPlex All-in-One 7410.
Temperature range	
Operating	5°C to 42°C (41°F to 107°F)
Storage	-40°C to 70°C (-40°F to 158°F)
Compliance	
Erp Lot6 Tier 2 requirement	Yes
80Plus compliant	Yes
Energy Star 8.0 compliant	Yes
GS mark compliant	Yes
FEMP Standby Power Compliant	Yes

Thermal dissipation

The following table lists the thermal dissipation of your OptiPlex All-in-One 7410.

Table 44. Thermal dissipation

Power supply unit	Heat dissipation	Voltage
160 W (80 Plus Bronze)		100 VAC-240 VAC, 50 Hz-60 Hz, 3.6 A/1.8 A

CMOS battery

The following table lists the CMOS battery specifications of your OptiPlex All-in-One 7410.

Table 45. CMOS battery

Brand	Туре	Voltage	Composition	Battery life
KTSMAXELLTIANQIU	CR2032	3 V	Lithium metal	Continuous discharge under 15 kΩ load to 2 V End-Voltage. 20°C±2°C 940 hours, or longer. 910 hours or longer after 12 months.

Accessories

The following table lists the recommended accessories on your OptiPlex All-in-One 7410.

Table 46. Accessories

Accessories

Audio

Dell Pro Stereo Headset - WH3022

Keyboard

Dell Premier Multi-Device Wireless Keyboard and Mouse - KM7321W

Mouse

Dell Premier Multi-Device Wireless Keyboard and Mouse - KM7321W

Stylus

Targus Stylus for Capacitive Touch Devices

Additional monitor

Qualified with select Dell UltraSharp, Professional, and E-series monitors

Locks

Kensington 2.0 Chassis Lock, Kensington Desktop and Peripheral Locking Kit, Kensington MicroSaver 2.0 Keyed Laptop Lock, Kensington MicroSaver Twin Laptop Lock.

Stands

- Fixed stand
- Height Adjustable Stand

Security

Software security

The following table lists the software security details of your OptiPlex All-in-One 7410.

Table 47. Software security

_		• •		
Se	cu	ritv	options	;

McAfee Small Business Security 30-day free trial

McAfee Small Business Security 12-month subscription

McAfee Small Business Security 36-month subscription

Intel Guard Technologies & Secure Key: Software Guard (SGX), Data Guard (vPro only), Boot Guard, BIOS Guard (Core CPU's only), OS Guard (Core CPU's only) and Secure Key (i5 or greater only)

Intel Runtime BIOS Resilience (Copper Point) with attestation via Nifty Rock + Intel TXT

Support of Absolute Persistent Module BIOS agent v2

OpenXT validation required

SafeGuard and Response, powered by VMware Carbon Black and Secureworks

Next Generation Antivirus (NGAV)

Endpoint Detection and Response (EDR)

Threat Detection and Response (TDR)

Managed Endpoint Detection and Response

Incident Management Retainer

Emergency Incident Response

SafeData

Trusted Platform Module

The following table lists the Trusted Platform Module (TPM) of your OptiPlex All-in-One 7410.

Table 48. Trusted Platform Module (TPM)

TPM: ST/ST33 HTPH2X32AHD8

SPI interface

TPM 2.0

FIPs 140-2 certificate

Mil-SPEC, for computers with Energy Efficient processors

The OptiPlex All-in-One 7410 meets military specifications for the following MIL-STD 810H tests verified by SGS laboratories:

Table 49. Military specifications

Test category	Test method	Test parameters	Result
Altitude (Storage/Air transport)	MIL-STD-810H, Method 500.6, Procedure I	 Test pressure: Equivalent to cabin altitude of 15,000 feet Test temperature: 21°C Altitude change rate: <10 m/s Duration: 1 hour 	Pass
Altitude (Operational/ Air carriage)	MIL-STD-810H, Method 500.6, Procedure II	 Test temperature: 21°C Altitude change rate: <10 m/s Duration: 1 hour 	Pass
High temperature (Storage and transition)	MIL-STD-810H, Method 501.7, Procedure I	 Test temperature: 33°C to 71°C (non-operational/storage), Table 501.7—III High temperature cycles Duration: 7x24 hr/cycle Climate category A1: Hot dry 	Pass
High temperature (Operation)	MIL-STD-810H, Method 501.7, Procedure II	 Test temperature: 32°C to 49°C (Ambient air), Table 501.7—III High temperature cycles Duration: 5 x 24 hours per cycle Climate category A1: Hot dry 	Pass
Low temperature (Storage)	MIL-STD-810H, Method 502.7, Procedure I	 Test temperature: -51°C Duration: 24 hrs 	Pass
Low temperature (Operation)	MIL-STD-810H, Method 502.7, Procedure II	Test temperature: -29°CDuration: 24 hrs	Pass
Humidity	MIL-STD-810H, Method 507.6, Procedure I	 Induced cycles (Storage and Transit): Duration: Table 507.6-II (Hot-humid cycle B3) Material category: Non-Hazardous items normal test duration Duration: 12 hours, Air velocity=1.5 m/s 	Pass
Bench handling	MIL-STD-810H, Method 516.8, Procedure VI	Lifted edge of chassis raised 100m (4 in.) above horizontal bench top.	Pass
Sand and dust (Blowing dust)	MIL-STD-810H, Method 510.7, Procedure I	(300 feet/minute) to 8.90 m/s (1750 feet/minute)—Temperature: 60°C Relative humidity: 30%	Pass
Vibration (Operation)	MIL-STD-810H, Method 514.8, Procedure I	Common carrier unknown orientation1 hour/axis	Pass
Vibration (Storage)	MIL-STD-810H, Method 514.8, Procedure I	General minimum integrity exposure1 hour/axis	Fail
Shock (Functional)	MIL-STD-810H, Method 516.8, Procedure I	 Pulse shape: Half-sine Acceleration: 185 g Pulse duration: 2 millisecond 	Pass

Table 49. Military specifications (continued)

Test category	Test method	Test parameters	Result
		 Shock direction: 6 faces (+/-X, +/-Y, +/-Z axes) Number of shocks: 1 shock/axis/direction (total 6 shocks) Test result: No visible damage, the unit works normal. 	
Shock (Transportation shock)	MIL-STD-810H, Method 516.8, Procedure II: material to be packaged	 On-road shock: 5.10 g/11 m (Table 516.8-VII) Off-road shocks: 15.20 g/5 ms (Table 516.8-VII) Test unit orientations: x, y, and z axis for both test Unit is non-operational during both test Saw tooth wave form cab be replaced by other classical wave forms necessary to meet test equipment capability. 	Pass
Shock - Crash Hazard Shock	MIL-STD-810H, Method 516.8 Procedure V	Non-Operational. 185 g, 2 ms Half Sine 2 shocks/axis/direction for a total of 12 shocks (i) NOTE: Dell to use noted test to replace MIL-STD-8108, Method 516.8, Procedure V, Table 516.8-XIII	Fail

Mil-SPEC, for computers with High Performance processors

The OptiPlex All-in-One 7410 meets military specifications for the following MIL-STD 810H tests verified by SGS laboratories:

Table 50. Military specifications

Test category	Test method	Test parameters	Result
Altitude (Storage/Air transport)	MIL-STD-810H, Method 500.6, Procedure I	 Test pressure: Equivalent to cabin altitude of 15,000 feet Test temperature: 21°C Altitude change rate: <10 m/s Duration: 1 hour 	Pass
Altitude (Operational/ Air carriage)	MIL-STD-810H, Method 500.6, Procedure II	 Test temperature: 21°C Altitude change rate: <10 m/s Duration: 1 hour 	Pass
High temperature (Storage and transition)	MIL-STD-810H, Method 501.7, Procedure I	 Test temperature: 33°C to 71°C (non-operational/storage), Table 501.7—III High temperature cycles Duration: 7x24 hr/cycle Climate category A1: Hot dry 	Pass
High temperature (Operation)	MIL-STD-810H, Method 501.7, Procedure II	 Test temperature: 32°C to 49°C (Ambient air), Table 501.7—III High temperature cycles Duration: 5 x 24 hours per cycle Climate category A1: Hot dry 	Pass
Low temperature (Storage)	MIL-STD-810H, Method 502.7, Procedure I	Test temperature: -51°CDuration: 24 hrs	Pass

Table 50. Military specifications (continued)

Test category	Test method	Test parameters	Result
Low temperature (Operation)	MIL-STD-810H, Method 502.7, Procedure II	Test temperature: -29°CDuration: 24 hrs	Pass
Humidity	MIL-STD-810H, Method 507.6, Procedure I	 Induced cycles (Storage and Transit): Duration: Table 507.6-II (Hot-humid cycle B3) Material category: Non-Hazardous items normal test duration Duration: 12 hours, Air velocity=1.5 m/s 	Pass
Bench handling	MIL-STD-810H, Method 516.8, Procedure VI	Lifted edge of chassis raised 100m (4 in.) above horizontal bench top.	Pass
Sand and dust (Blowing dust)	MIL-STD-810H, Method 510.7, Procedure I	(300 feet/minute) to 8.90 m/s (1750 feet/minute)—Temperature: 60°C Relative humidity: 30%	Pass
Vibration (Operation)	MIL-STD-810H, Method 514.8, Procedure I	Common carrier unknown orientation1 hour/axis	Fail
Vibration (Storage)	MIL-STD-810H, Method 514.8, Procedure I	General minimum integrity exposure1 hour/axis	Pass
Shock (Functional)	MIL-STD-810H, Method 516.8, Procedure I	 Pulse shape: Half-sine Acceleration: 185 g Pulse duration: 2 millisecond Shock direction: 6 faces (+/-X, +/-Y, +/-Z axes) Number of shocks: 1 shock/axis/direction (total 6 shocks) Test result: No visible damage, the unit works normal. 	Pass
Shock (Transportation shock)	MIL-STD-810H, Method 516.8, Procedure II: material to be packaged	 On-road shock: 5.10 g/11 m (Table 516.8-VII) Off-road shocks: 15.20 g/5 ms (Table 516.8-VII) Test unit orientations: x, y, and z axis for both test Unit is non-operational during both test Saw tooth wave form cab be replaced by other classical wave forms necessary to meet test equipment capability. 	Pass
Shock - Crash Hazard Shock	MIL-STD-810H, Method 516.8 Procedure V	Non-Operational. 185 g, 2 ms Half Sine 2 shocks/axis/direction for a total of 12 shocks (i) NOTE: Dell to use noted test to replace MIL-STD-8108, Method 516.8, Procedure V, Table 516.8-XIII	Pass

Acoustic noise emission information

The following table lists the acoustic noise emission information of your OptiPlex All-in-One 7410.

Declared noise emission values are in accordance with ISO 9296. Testing performed in compliance with ISO 7779 with operating modes defined by ECMA-74.

Table 51. OptiPlex All-in-One 7410 with i5-13600T processor/2 \times 32 GB memory/M.2 SSD/180 W Power adapter

Component	Test Configuration	
CPU	13 th Generation Intel Core i5-13600T	
Memory	32 GB + 32 GB	
HDD (#, capacity)	M.2 solid-state drive	
ODD	Not applicable	
Graphics Adapter	Intel UHD Graphics 770	
Power adapter	180 W AC adapter	

Table 52. Declared Sound Power (LWAd)

Operating Mode	Sound Power, Declared mean A-wieghted level, L _{WA,m} (bels)	Sound Power, Statistical adder for verification, K_V (bels)
Idle	2.60	0.4
Storage Operating	3	0.4
CPU Stressed	3.10	0.4
ODD Operating	Not applicable	Not applicable

Table 53. A-Weighted Sound Pressure Level (dB)

Operating Mode	Sound Pressure Declared mean A weighted emission level, L _{pA,m} , Operator (dB)	Sound Power, Statistical adder for verification, K_V , Bystander (bels)
Idle	19.70	16.80
Storage Operating	19.70	18.50
CPU Stressed	30.50	19
ODD Operating	Not applicable	Not applicable

Table 54. OptiPlex All-in-One 7410 with i7-13700 processor/2 x 32 GB memory/M.2 SSD/160 W Power Supply

Component	Test Configuration	
CPU	13 th Generation Intel Core i7-13700	
Memory	32 GB + 32 GB	
HDD (#, capacity)	M.2 solid-state drive	
ODD	Not applicable	
Graphics Adapter	Intel UHD Graphics 770	
Power supply	160 W Bronze	

Table 55. Declared Sound Power (LWAd)

Operating Mode	Sound Power, Declared mean A-wieghted level, L _{WA,m} (bels)	Sound Power, Statistical adder for verification, K _V (bels)
Idle	2.60	0.4
Storage Operating	2.60	0.4
CPU Stressed	3.50	0.4
ODD Operating	Not applicable	Not applicable

Table 56. A-Weighted Sound Pressure Level (dB)

Operating Mode	Sound Pressure Declared mean A weighted emission level, L _{pA,m} , Operator (dB)	Sound Power, Statistical adder for verification, K_V , Bystander (bels)
Idle	19.70	16.20
Storage Operating	19.70	16.20
CPU Stressed	30.50	25.10
ODD Operating	Not applicable	Not applicable

All tests are conducted according to ISO 7779 and declared according to ISO 9296 except CPU Stressed. This test mode is not specified in ISO 7779, but was measured using the same microphone distances and measurement techniques defined for the other reported operating modes.

Declared Sound Power rounded to nearest tenth of a bel per ISO 9296 section 4.4.2

Chassis enclosure and ventilation requirements

Enclosure ventilation

If your enclosure has doors, they need to be of a type that allows at least 30% airflow through the enclosure (front and back).

Enclosure minimum clearance

Leave a 10.20 cm (4 in.) minimum clearance on all vented sides of the computer to permit the airflow required for proper ventilation.

Recommended enclosure

Do not install your computer in an enclosure that does not allow airflow/dusty environment/temperate over 35°C. Do not put any objects to directly block air-vent. This restricts the airflow and impacts your computer's performance, possibly causing it to overheat.

Open desk minimum clearance

If your computer is installed in a corner, on a desk, or under a desk, leave at least 5.10 cm (2 in.) clearance from the back of the computer to the wall to permit the airflow required for proper ventilation.

System management features

Dell commercial systems come with a number of systems management options that are include by default for In-Band management with our Dell Client Command Suite. In-Band management meaning that the Operating System is functional and the device is connected to a network so that it can be managed. The Dell Client Command Suite of tools can be leveraged individually or with a systems management console like SCCM, LANDESK, KACE, etc.

We also offer Out-of-Band management as an option. Out-of-band management is when the system does not have a functional operating system or is turned off and you still want to be able to manage the system in that state.

Dell Client Command Suite for In-Band systems management

Dell Client Command Suite is a free toolkit available for download, for all Latitude Rugged tablets at dell.com/support, that automates and streamlines systems management tasks, saving time, money, and resources. It consists of the following modules that can be used independently, or with a variety of systems management consoles such as SCCM.

Dell Client Command Suite's integration with VMware Workspace ONE Powered by AirWatch, now allows customers to manage their Dell client hardware from the cloud, using a single Workspace ONE console.

Dell Command | Deploy enables easy operating system (OS) deployment across all major OS deployment methodologies and provides numerous system-specific drivers that have been extracted and reduced to an OS-consumable state.

Dell Command I Configure is a graphical user interface (GUI) admin tool for configuring and deploying hardware settings in a pre-OS or post-OS environment, and it operates seamlessly with SCCM and Airwatch and can be self-integrated into LANDesk

and KACE. Simply, this is all about the BIOS. Command I Configure allows you to remotely automate and configure over 150+BIOS settings for a personalized user experience.

Dell Command I PowerShell Provider can do the same things as Command I Configure, but with a different method. PowerShell is a scripting language that allows customers to create a customized and dynamic configuration process.

Dell Command I Monitor is a Windows Management Instrumentation (WMI) agent that provides IT admins with an extensive inventory of the hardware and health-state data. Admins can also configure hardware remotely by using command line and scripting.

Dell Command I Power Manager (end-user tool) is a GUI-based factory-installed battery management tool that allows end users to choose the battery management methods that meet their personal preferences or work schedule without sacrificing IT's capability to control those settings with Group Policy.

Dell Command | Update (end-user tool) is factory-installed and allows admins to individually manage and automatically present and install Dell updates to the BIOS, drivers, and software. Command I Update eliminates the time-consuming hunting and pecking process of update installation.

Dell Command I Update Catalog provides searchable metadata that allows the management console to retrieve the latest system-specific updates (driver, firmware or BIOS). The updates are then delivered seamlessly to end-users using the customer's systems management infrastructure that is consuming the catalog (like SCCM).

Dell Command | vPro Out of Band console extends hardware management to systems that are offline or have an unreachable OS (Dell exclusive features).

Dell Command | Integration Suite for System Center - This suite integrates all the key components of the Client Command Suite into Microsoft System Center Configuration Manager 2012 and Current Branch versions.

Out-of-Band Systems Management

For processors without vPro, the Intel Standard Manageability option **must be configured in the factory at the time of purchase, as it is NOT field upgradable.** It offers out-of-band management and DASH compliance (https://registry.dmtf.org/registry/results/field_initiative_name%3A%22DASH%201.0%22).

For processors with vPro, Intel vPro provides an enhanced level of integrated security, hardware-level security, and comprehensive cyber defense. Intel vPro allows you to remotely power on devices, streamline PC life cycle management without compromising productivity, secure repair, and maintain when needed. Intel vPro Enterprise continues to raise the bar with enterprise–grade security and manageability features for enterprise and managed businesses of all sizes. Versions are available for Windows, specific features may vary.

Dell ComfortView

CAUTION: Prolonged exposure to blue light, particularly from digital sources, may disrupt sleep patterns and cause long-term effects such as eye strain, eye fatigue, or damage to the eyes.

Blue light is a color in the white light spectrum which has a short wavelength and high frequency. Chronic exposure to blue light, particularly from digital sources, may disrupt sleep patterns and change our body's Circadian rhythm. Using the computer for an extended period may also cause fatigue in other body parts such as the neck, arm, back, and shoulder.

Dell low blue light displays optimize eye comfort with a flicker-free screen. The device uses flicker-free technology and maintains a stable backlight. Flicker-Free technology clears the visible flicker, brings comfortable viewing experience, and protects users from eye strain and fatigue. The ComfortView feature reduces the amount of blue light emitted from the monitor to optimize eye comfort. ComfortView mode can be enabled and configured using the **Dell CinemaColor** (DCC) application.

Dell CinemaColor

Dell CinemaColor (DCC) combines the hardware and software to deliver clear visuals that appear every bit as vibrant as the world around you. The DCC has four color profiles that optimize these settings depending on the content and your surroundings.

When you open DCC, you can choose **Movie (default)**, **ComfortView**, **Sports**, or **Animation** from the list. The ComfortView Profile optimizes eye comfort by reducing harmful blue light emissions to make extended screen time easy on your eyes compared to standard digital panels while still retaining the vibrant colors.

ComfortView mode reduces hazardous blue light by adjusting display parameters. You can adjust the Saturation, Temperature, and Contrast values to create your custom setting in the ComfortView mode.

NOTE: For more information on how to download and install DellCinema components, search about it in the Knowledge Base Resource at https://www.dell.com/support.

ComfortView Plus

ComfortView Plus is a built-in, always-on, and virtually unnoticeable low blue light solution for Dell displays. ComfortView Plus employs a hardware-based design that allows for a wider blue spectrum, with a much lower peak and reduced intensity. Dell ComfortView Plus has been certified by TÜV Rheinland as a low blue light hardware solution. This feature is enabled at the factory.

NOTE: ComfortView Plus is an optional hardware feature to be configured at the point of sale.

To reduce the risk of eye strain, it is also recommended that you:

- Position the display at a comfortable viewing distance between 20 in. to 28 in. (50 cm and 70 cm) from your eyes.
- Blink frequently to moisten your eyes, wet your eyes with water, or apply suitable eye drops.
- Look away from your display, and gaze at a distant object at 20 ft (609.60 cm) away for at least 20 seconds during each break
- Take an extended break for 20 minutes every two hours.

Dell Optimizer

This section details the Dell Optimizer specifications of your OptiPlex All-in-One 7410.

On OptiPlex All-in-One 7410 with Dell Optimizer, the following features are supported:

- **Express Connect**—Automatically joins the access point with the strongest signal, and directs bandwidth to conferencing applications when in use.
- ExpressResponse—Prioritizes the most important applications. Applications open faster and perform better.
- Intelligent Audio—The audio feature enhances the audio functionality during your online meetings. The audio feature helps filter the background noise, stabilize volume, and prioritize preferred voice streaming during online meetings.

For more information about configuring and using these features, see Dell Optimizer User Guide.

Getting help and contacting Dell

Self-help resources

You can get information and help on Dell products and services using these self-help resources:

Table 57. Self-help resources

Self-help resources	Resource location
Information about Dell products and services	www.dell.com
My Dell app	DELL
Tips	*
Contact Support	In Windows search, type Contact Support, and press Enter.
Online help for operating system	www.dell.com/support/windows
	www.dell.com/support/linux
Access top solutions, diagnostics, drivers and downloads, and learn more about your computer through videos, manuals and documents.	Your Dell computer is uniquely identified by a Service Tag or Express Service Code. To view relevant support resources for your Dell computer, enter the Service Tag or Express Service Code at www.dell.com/support. For more information on how to find the Service Tag for your computer, see Locate the Service Tag on your computer.
Dell knowledge base articles for a variety of computer concerns	 Go to www.dell.com/support. On the menu bar at the top of the Support page, select Support > Knowledge Base. In the Search field on the Knowledge Base page, type the keyword, topic, or model number, and then click or tap the search icon to view the related articles.

Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see www.dell.com/contactdell.

- (i) NOTE: Availability varies by country/region and product, and some services may not be available in your country/region.
- NOTE: If you do not have an active Internet connection, you can find contact information about your purchase invoice, packing slip, bill, or Dell product catalog.