OptiPlex Micro 7010

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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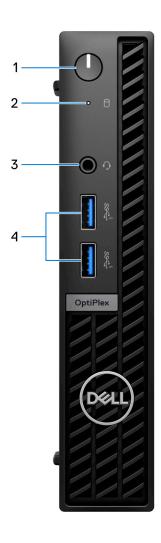
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Views of OptiPlex Micro 7010

Front



1. 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.

2. Storage drive activity light

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

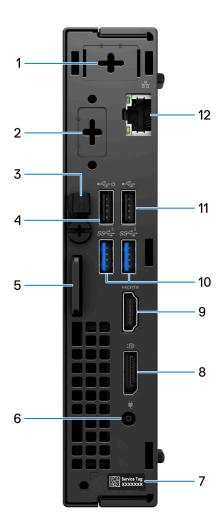
3. Universal audio jack

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

4. Two USB 3.2 Gen 1 ports

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

Back



1. One optional external antenna port

Supports an optional external antenna module.

2. One optional video module port

Supports an optional module for HDMI 2.1/Displayport 1.4a (HBR3)/VGA/PS2/serial/USB Type-C with DisplayPort Alt mode + power delivery in.

NOTE: You may connect a 90 W Dell USB-C hub monitor to the optional Type-C port as a consolidated power, display and USB I/O solution for your computer.

3. DC-in cable clip

For power-adapter cable routing.

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. Kensington security-cable slot and padlock ring

Connect a security cable to prevent unauthorized movement of your computer and/or attach a standard padlock to prevent unauthorized access to the interior of your computer.

6. Power-adapter port

Connect a power adapter to provide power to your computer.

7. 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.

8. DisplayPort 1.4a

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

9. HDMI 1.4b port

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

10. Two USB 3.2 Gen 1 ports

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

11. USB 2.0 port

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

12. Network port

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

Specifications of OptiPlex Micro 7010

Dimensions and weight

The following table lists the height, width, depth, and weight of your OptiPlex Micro 7010.

Table 1. Dimensions and weight

Description	Values
Height	182 mm (7.17 in.)
Width	36 mm (1.42 in.)
Depth	178 mm (7.01 in.)
Weight i NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.	Minimum:1.09 kg (2.41 lb)Maximum: 1.34 kg (2.95 lb)

Processor

The following table lists the details of the processors supported by your OptiPlex Micro 7010.

Table 2. Processor

Description	Option one	Option two	Option three	Option four
Processor type	Intel Celeron G6900T	Intel Pentium Gold G7400T	13 th Generation Intel Core i3-13100T	13 th Generation Intel Core i5-13400T
Processor wattage	35 W	35 W	35 W	35 W
Processor total core count	2	2	4	10
Performance-cores	2	2	4	6
Efficient-cores	0	0	0	4
Processor total thread counts	2	4	8	16
i NOTE: Intel® Hyper-Threading Technology is only available on Performance- cores.				
Processor speed	Up to 2.80 GHz	Up to 3.10 GHz	Up to 4.20 GHz	Up to 4.40 GHz
Performance-cores free	quency			•
Processor base frequency	2.80 GHz	3.10 GHz	2.50 GHz	1.30 GHz
Maximum turbo frequency	Not applicable	Not applicable	4.20 GHz	4.40 GHz
Efficient-cores frequen	cy			
Processor base frequency	Not applicable	Not applicable	Not applicable	1 GHz
Maximum turbo frequency	Not applicable	Not applicable	Not applicable	3 GHz
		ock speeds and thermal de ell app on your computer.	sign power differ accordin	g to the thermal mode
Processor cache	4 MB	6 MB	12 MB	20 MB
Integrated graphics	Intel UHD Graphics 710	Intel UHD Graphics 710	Intel UHD Graphics 730	Intel UHD Graphics 730

Table 3. Processor

Description	Option five	Option six	Option seven	Option eight	Option nine
Processor type	13 th Generation Intel Core i5-13500T	13 th Generation Intel Core i5-13600T	13 th Generation Intel Core i7-13700T	12 th Generation Intel Core i3-12100T	12 th Generation Intel Core i5-12500T
Processor wattage	35 W	35 W	35 W	35 W	35 W
Processor total core count	14	14	16	4	6
Performance-cores	6	6	8	4	6
Efficient-cores	8	8	8	0	0
Processor total thread counts	20	20	24	8	12
i NOTE: Intel® Hyper- Threading Technology is only available on Performance- cores.					
Processor speed	Up to 4.60 GHz	Up to 4.80 GHz	Up to 4.80 GHz	Up to 4.10 GHz	Up to 4.40 GHz
Performance-cores t	frequency	•		İ	
Processor base frequency	1.60 GHz	1.80 GHz	1.40 GHz	2.20 GHz	2 GHz
Maximum turbo frequency	4.60 GHz	4.80 GHz	4.80 GHz	4.10 GHz	4.40 GHz
Efficient-cores frequ	iency				
Processor base frequency	1.20 GHz	1.30 GHz	1 GHz	Not applicable	Not applicable
Maximum turbo frequency	3.20 GHz	3.40 GHz	3.60 GHz	Not applicable	Not applicable
·		clock speeds and ther y Dell app on your comp	mal design power differ outer.	according to the t	hermal mode
Processor cache	24 MB	24 MB	30 MB	12 MB	18 MB
Integrated graphics	Intel UHD Graphics 770	Intel UHD Graphics 770	Intel UHD Graphics 770	Intel UHD Graphics 730	Intel UHD Graphics 770

Chipset

The following table lists the details of the chipset supported by your OptiPlex Micro 7010.

Table 4. Chipset

Description	Values
Chipset	Intel Q670
Processor	Intel Core i3/i5/i7Intel Pentium Gold

Table 4. Chipset (continued)

Description	Values	
	Intel Celeron	
DRAM bus width	64/128-bit	
Flash EPROM	32 MB RPMC+16 MB nRPMC	
PCle bus	Up to Gen3	

Operating system

Your OptiPlex Micro 7010 supports the following operating systems:

- Windows 11 Home, 64-bit
- Windows 11 Pro, 64-bit
- Windows 11 Downgrade (Windows 10 image)
- Windows 11 Pro National Education, 64-bit
- Windows 11 CMIT Government Edition, 64-bit (China only)
- Ubuntu Linux 20.04 LTS, 64-bit
- Windows 10 Pro, 64-bit

Memory

The following table lists the memory specifications of your OptiPlex Micro 7010.

Table 5. Memory specifications

Description	Values
Memory slots	Two SODIMM slots
Memory type	DDR4
Memory speed	3200 MHz
Maximum memory configuration	64 GB
Minimum memory configuration	4 GB
Memory size per slot	4 GB, 8 GB, 16 GB, 32 GB, 64 GB
Memory configurations supported	 4 GB, 1 x 4 GB, DDR4, 3200 MHz, single-channel 8 GB, 1 x 8 GB, DDR4, 3200 MHz, single-channel 8 GB, 2 x 4 GB, DDR4, 3200 MHz, dual-channel 16 GB, 1 x 16 GB, DDR4, 3200 MHz, single-channel 16 GB, 2 x 8 GB, DDR4, 3200 MHz, dual-channel 32 GB, 1 x 32 GB, DDR4, 3200 MHz, single-channel 32 GB, 2 x 16 GB, DDR4, 3200 MHz, dual-channel 64 GB, 2 x 32 GB, DDR4, 3200 MHz, dual-channel

Memory matrix

The following table lists the memory configurations supported on your OptiPlex Micro 7010.

Table 6. Memory matrix

Configuration	Slot	
	SO-DIMM1	SO-DIMM2
4 GB DDR4	4 GB	
8 GB DDR4	8 GB	
8 GB DDR4	4 GB	4 GB
16 GB DDR4	16 GB	
16 GB DDR4	8 GB	8 GB
32 GB DDR4	32 GB	
32 GB DDR4	16 GB	16 GB
64 GB DDR4	32 GB	32 GB

External ports

The following table lists the external ports of your OptiPlex Micro 7010.

Table 7. External ports

Description	Values
Network port	One RJ45 Ethernet port 10/100/1000 Mbps
USB ports	 Two USB 3.2 Gen 1 ports (Front) Two USB 3.2 Gen 1 ports (Rear) One USB 2.0 port (Rear) One USB 2.0 port with Smart Power On (Rear)
Audio port	One universal audio jack (Front)
Video port	 One optional video port (HDMI 2.1/Displayport 1.4a (HBR3)/VGA/PS2/serial/USB Type-C with DisplayPort Alt mode + power delivery in) (Rear)
Media-card reader	Not supported
Power-adapter port	 One DC-in port with 4.50 mm barrel One Type-C power in (optional) NOTE: You may connect a 90 W Dell USB-C hub monitor to the optional Type-C port as a consolidated power, display and I/O solution for your computer.
Security-cable slot	One Kensington lock slot

Table 7. External ports (continued)

Description	Values
	One padlock ring

Internal slots

The following table lists the internal slots of your OptiPlex Micro 7010.

Table 8. Internal slots

Description	Values
M.2	 One M.2 2230 slot for WiFi and Bluetooth card One M.2 2230/2280 slot for SSD 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 HDD

Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your OptiPlex Micro 7010.

Table 9. Ethernet specifications

Description	Values	
Model number	Intel WGI219LM	
Transfer rate	10/100/1000 Mbps	

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module specifications of your OptiPlex Micro 7010.

Table 10. Wireless module specifications

Description	Option one	Option two	Option three
Model number	Realtek RTL8821CE	Realtek RTL8852BE	Intel AX211
Transfer rate	Up to 433 Mbps	Up to 1201 Mbps	Up to 2400 Mbps
Frequency bands supported	2.40 GHz/5 GHz	2.40 GHz/5 GHz 2.40 GHz/5 GHz/6 GHz	
Wireless standards	 WiFi 802.11a/b/g Wi-Fi 4 (WiFi 802.11n) Wi-Fi 5 (WiFi 802.11ac) 	 WiFi 802.11a/b/g Wi-Fi 4 (WiFi 802.11n) Wi-Fi 5 (WiFi 802.11ac) Wi-Fi 6 (WiFi 802.11ax) 	 WiFi 802.11a/b/g Wi-Fi 4 (WiFi 802.11n) Wi-Fi 5 (WiFi 802.11ac) Wi-Fi 6E (WiFi 802.11ax)
Encryption	64-bit/128-bit WEPAES-CCMPTKIP	64-bit/128-bit WEP AES-CCMP TKIP	64-bit/128-bit WEP AES-CCMP TKIP

Table 10. Wireless module specifications (continued)

Description	Option one	Option two	Option three
Bluetooth wireless card	Bluetooth wireless card	Bluetooth wireless card	Bluetooth wireless card
	NOTE: The version of the Bluetooth wireless card may vary depending on the operating system that is installed on your computer.		ry depending on the operating

Audio

The following table lists the audio specifications of your OptiPlex Micro 7010.

Table 11. Audio specifications

Description		Values	
Audio controller		Realtek ALC3246	
Stereo conversion		Not supported	
Internal audio interface		High definition audio interface	
External audio interface		Universal audio jack	
Number of speakers		One	
Internal-speaker amplifier		Supported	
External volume controls		Keyboard shortcut controls	
Speaker output:			
Average speaker output		2 W	
Peak speaker output		2.5 W	
Subwoofer output		Not supported	
Microphone		Not supported	

Storage

This section lists the storage options on your OptiPlex Micro 7010.

Table 12. Storage matrix

Storage		1st 2.5-inch hard drive	1st M.2 socket	1st Bootable Device
2.5-inch hard drive		Yes		2.5-inch hard drive
M.2 solid-state drive			Yes	1st M.2 solid-state drive
M.2 solid-state drive	2.5-inch hard drive	Yes	Yes	1st M.2 solid-state drive

Table 13. Storage specifications

Storage type	Interface type	Capacity
2.5-inch, 7200 RPM, hard-disk drive	SATA 3.0	Up to 1 TB
M.2 2230, Class 25 solid-state drive	PCle NVMe	Up to 1 TB
M.2 2230, Class 35 solid-state drive	PCle NVMe	Up to 1 TB
M.2 2230, Class 35, Opal Self- Encrypting solid-state drive	PCIe NVMe	256 GB
M.2 2230, Class 40 solid-state drive	PCIe NVMe	Up to 2 TB
M.2 2280, Class 40, Opal Self- Encrypting solid-state drive	PCIe NVMe	Up to 1 TB

Power adapter

The following table lists the power adapter specifications of your OptiPlex Micro 7010.

Table 14. Power adapter specifications

Des	cription	Option one	Option two
Турє)	65 W	90 W
Connector dimensions:		·	
	External diameter	4.50 mm	4.50 mm
	Internal diameter	2.90 mm	2.90 mm
Pow	er-adapter dimensions:		·
	Height	28 mm (1.10 in.)	32 mm (1.26 in.)
	Width	47 mm (1.85 in.)	52 mm (2.05 in.)
	Depth	108 mm (4.25 in.)	128 mm (5.04 in.)
Inpu	t voltage	100 VAC x 240 VAC	100 VAC x 240 VAC
Inpu	t frequency	50 Hz x 60 Hz	50 Hz x 60 Hz
Inpu	t current (maximum)	1.60 A / 1.70 A	1.50 A
Outp	out current (continuous)	3.34 A	4.62 A
Rate	d output voltage	19.50 VDC	19.50 VDC
Tem	perature 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.

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your OptiPlex Micro 7010.

Table 15. GPU—Integrated

Controller	External display support	Memory size	Processor
Intel UHD Graphics 710	One DisplayPort 1.4a HBR2One HDMI 1.4b	Shared system memory	Intel Celeron G6900T and Intel Pentium Gold G7400T processors
Intel UHD Graphics 730	One DisplayPort 1.4a HBR2One HDMI 1.4b	Shared system memory	 12th Generation Intel Core i3-12100T 13th Generation Intel Core i5-13400T and i3-13100T processors
Intel UHD Graphics 770	One DisplayPort 1.4a HBR2One HDMI 1.4b	Shared system memory	 12th Generation Intel Core i5-12500T 13th Generation Intel Core i5-13500T, i5-13600T, and i7-13700T processors

Video port resolution (GPU—Integrated)

Table 16. Video port resolution (GPU—Integrated)

Graphics card	Video ports	Maximum supported resolution
Intel UHD Graphics 710/730/770	One DisplayPort 1.4a HBR2 and One HDMI 1.4b	 DisplayPort 1.4a: 4096 x 2304 at 60 Hz HDMI 1.4b: 1920 x 1200 at 60 Hz

External display support (GPU—Integrated)

Table 17. External display support (GPU—Integrated)

Integrated graphics card	Number of supported external display	
One HDMI 1.4b + One DisplayPort 1.4a	• 2	
	• 4, with MST	
One HDMI 1.4b + One DisplayPort 1.4a + Optional module	• 3	
	• 4, with MST	

Hardware security

The following table lists the hardware security of your OptiPlex Micro 7010.

Table 18. Hardware security

Hardware security	Hardware security
Kensington security-cable slot	Kensington security-ca
Padlock ring	Padlock ring

Table 18. Hardware security (continued)

Hardware security
Chasis lock slot support
Chassis intrusion switch

Environmental

The following table lists the environmental specifications of your OptiPlex Micro 7010.

Table 19. Environmental

Feature	Values
Recyclable packaging	Yes
BFR/PVC—free chassis	Yes
Vertical orientation packaging support	No
Multi-Pack packaging	Yes
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 compliance

The following table lists the regulatory compliance of your OptiPlex Micro 7010.

Table 20. Regulatory compliance

Regulatory compliance	
Product Safety, EMC and Environmental Datasheets	
Dell Regulatory Compliance Home page	
Dell and the Environment	

Operating and storage environment

This table lists the operating and storage specifications of your OptiPlex Micro 7010.

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

Table 21. 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, Max dew point temperature = 26°C)	5% to 95% (non-condensing, Max dew point temperature = 33°C)
Vibration (maximum)*	0.26 GRMS random at 5 Hz to 350 Hz	1.37 GRMS random at 5 Hz to 350 Hz

Table 21. Computer environment (continued)

Description	Operating	Storage
Shock (maximum)	Bottom half-sine pulse with a change in velocity of 50.80 cm/sec (20 in./sec)	105G half-sine pulse with a change in velocity of 133 cm/sec (52.5 in./sec)
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.

Optional Type-C module and USB-C Hub Monitor support

The OptiPlex Micro 7010 can come installed with an optional Type-C module installed. This optional Type-C module enables DisplayPort 1.4, USB 3.1 Gen 2 support and DC-in through a single USB-C connection at the back of your computer.

A Dell USB-C hub monitor that supports 90 W DC-in can offer a consolidated display, power and USB I/O solution for your OptiPlex Micro 7010. Here are some recommended Dell USB-C hub monitors for your OptiPlex Micro 7010.

Table 22. Dell USB-C hub monitors

Product code	Monitor product name
P3223DE	Dell 32 USB-C Hub Monitor
C3422WE	Dell 34 Curved Video Conferencing Monitor
C8621QT	Dell 86 4K Interactive Touch Monitor
U2520D	UltraSharp 25 USB-C Monitor
U2722DE	Dell UltraSharp 27 USB-C Hub Monitor
U3223QE	Dell UltraSharp 32 4K USB-C Hub Monitor

To see the full list of Dell USB-C hub monitors available in your region go to www.dell.com.

- NOTE: To enable full feature support of your USB-C hub monitor, ensure that the USB-C cable that connects your computer to the monitor supports 90 W, DisplayPort 1.4 and USB 3.1 Gen 2 functionality.
- NOTE: Hot swapping between the DC-in through the power-adapter port and the optional Type-C module is not possible. To switch power sources, first turn off your computer and disconnect the original DC-in power before connecting the new DC-in power solution.

Engineering specifications

Physical system dimensions

The following table provides the physical dimensions of your OptiPlex Micro 7010.

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 23. Physical system dimensions

Feature	Values	
Chassis volume	1.18	
Chassis Weight	2.83 lb (1.28 kg)	
Chassis dimensions		
Height	7.17 in. (182 mm)	
Width	7.01 in. (178 mm)	
Depth	1.42 in. (36 mm)	
Shipping Weight (includes packaging materials)	7.05 lb (3.20 kg)	
Packaging dimensions		
Height	5.25 in. (133 mm)	
Width	19.63 in. (498 mm)	
Depth	9.38 in. (238 mm)	

Add-in card dimensions

Slot limitations

Table 24. M.2 2230 slot for Wi-Fi card

Voltage	3.30 V
Width	0.86 in. (22.00 mm)
Length	1.18 in. (30.00 mm)
Thickness	0.14 in. (3.65 mm)
Maximum wattage	6.60 W

Table 25. M.2 2280 slot for solid-state drive

Voltage	3.30 V
Width	0.86 in. (22.00 mm)
Length	3.14 in. (80.00 mm)
Thickness	0.15 in. (3.80 mm)

Maximum Wattage	8.25 W

Stands and mounts

Vertical Stand



PSU Adapter Sleeve



All-in-One Stand (MFS22)



VESA mount for E-Series Monitor



Dual VESA Mount



Wall/Under-the-Desk VESA Mount w/ PSU Sleeve



Ethernet

Intel Ethernet Connection i219-LM

The following table lists the i219-LM specifications.

Table 26. 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	
Network transfer rate	10 Mb (full/half-duplex)
10BASE-T (full-duplex) 20 Mbps	100 Mb (full/half-duplex)

Table 26. Intel Ethernet Connection i219-LM specifications (continued)

Feature	Values
100BASE-TX (half-duplex) 100 Mbps	1000 Mb (full-duplex)
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)UbuntuNeokylin
Manageability	Wakeup On LANPXE 2.1
Management capabilities alerting	Optional Intel Standard Manageability (must be made at time of purchase).

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

Realtek RTL8821CE, 1x1, Wi-Fi 5 (Wi-Fi 802.11ac), Bluetooth 5.0

The following table lists the Realtek RTL8821CE specifications.

Table 27. Realtek RTL8821CE specifications

Host interface	Wi-Fi - PCleBluetooth - USB
Network standard	IEEE 802.11a/b/g/n/ac, MU-MIMO
Wi-Fi Alliance certifications	 Wi-Fi certified a/b/g/n/ac WMM WPA WPA2 Wi-Fi Direct (Windows only)
Operating frequency bands	2.4 GHz5 GHz
Data rate	2.4 GHz 40M: Up to 150 Mbps5 GHz 80M: Up to 433 Mbps
Power consumption	Optimized power modes (sleep states) reduce power consumption during periods of inactivity
Authentication	 Open Shared WPA WPA-PSK WPA2 WPA2-PSK
Client utility	Native Wi-Fi and Bluetooth Microsoft UI support
Software support	Microsoft WHQL certified for Windows

Table 27. Realtek RTL8821CE specifications (continued)

	• Linux
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 5.0BLE
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

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 - PCle Bluetooth - 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
Power consumption	Optimized power modes (sleep states) reduce power consumption during periods of inactivity
Authentication	 WPA* and WPA2* Personal and Enterprise WPA3* Personal and Enterprise
Client utility	Native Wi-Fi and Bluetooth Microsoft UI support
Software support	Microsoft WHQL certified for Windows Linux
Radio On/Off	Supported
Roaming	Support seamless roaming between access points

Table 28. Realtek RTL8852BE specifications (continued)

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
i NOTE: *Other names and brands may be claimed as the property of others	

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.

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

Table 29. Intel AX211 specifications

Host interface	CNVio
Network standard	IEEE 802.11a/b/g/n/ac/ax, 160 MHz channel use, MU-MIMO, new 6 GHz band
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 WEPTKIP128-bit AES-CCMP

Table 29. Intel AX211 specifications (continued)

	256-bit AES-GCMP
Product safety	• UL
	• C-UL
	• CB (IEC60950-1)
Management capabilities alerting	Support for Intel AMT
Government compliance	• FIPS 140-2
	• FISMA
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 5.3
	• BLE
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)

GPU—Integrated

Intel UHD Graphics 710

Table 30. Intel UHD Graphics 710 specifications

Intel UHD Graphics 710	
Bus Type	Integrated
Memory Type	Shared memory
Graphics Level	Intel Pentium Gold G7400/Celeron G6900: GT0.5 (UHD)
Overlay Planes	Yes
Operating Systems Graphics/ Video API Support	DirectX 12, OpenGL (4.60)
Supports maximum resolution	 On board HDMI 1.4b (1920 x 1200 @ 60 Hz) On board DisplayPort 1.4a (HBR2) (4096 x 2304 @ 60 Hz)
Maximum vertical refresh rate	Up to 60 Hz depending on resolution

Table 30. Intel UHD Graphics 710 specifications (continued)

Intel UHD Graphics 710	
External ports	 One HDMI 1.4b One DisplayPort 1.4a One optional video port (HDMI 2.1/Displayport 1.4a port (HBR3)/VGA/USB Type-C with DisplayPort Alt mode + power delivery in)
Multiple display support	Up to 4 displays via DisplayPort Multi-Streaming Technology (MST)

Intel UHD Graphics 730

Table 31. Intel UHD Graphics 730 specifications

Intel UHD Graphics 730	
Bus Type	Integrated
Memory type	Shared memory
Graphics Level	Intel Core i3/i5/i7: GT1 (UHD)
Overlay Planes	Yes
Operating Systems Graphics/ Video API Support	DirectX 12, OpenGL (4.60)
Supports maximum resolution	 On board HDMI 1.4b (1920 x 1200 @ 60 Hz) On board DisplayPort 1.4a (HBR2) (4096 x 2304 @ 60 Hz)
Maximum vertical refresh rate	Up to 60 Hz depending on resolution
External ports	 One HDMI 1.4b One DisplayPort 1.4a One optional video port (HDMI 2.1/Displayport 1.4a port (HBR3)/VGA/USB Type-C with DisplayPort Alt mode + power delivery in)
Multiple display support	Up to 4 displays via DisplayPort Multi-Streaming Technology (MST)

Intel UHD Graphics 770

Table 32. Intel UHD Graphics 770 specifications

Intel UHD Graphics 770	
Bus Type	Integrated
Memory type	Shared memory
Graphics Level	Intel Core i3/i5/i7: GT1 (UHD)
Overlay Planes	Yes
Operating Systems Graphics/ Video API Support	DirectX 12, OpenGL (4.60)
Supports maximum resolution	 On board HDMI 1.4b (1920 x 1200 @ 60 Hz) On board DisplayPort 1.4a (HBR2) (4096 x 2304 @ 60 Hz)
Maximum vertical refresh rate	Up to 60 Hz depending on resolution
External ports	One HDMI 1.4b

Table 32. Intel UHD Graphics 770 specifications (continued)

Intel UHD Graphics 770	
	 One DisplayPort 1.4a One optional video port (HDMI 2.1/Displayport 1.4a port (HBR3)/VGA/USB Type-C with DisplayPort Alt mode + power delivery in)
Multiple display support	Up to 4 displays via DisplayPort Multi-Streaming Technology (MST)

Storage

2.5-inch, 500 GB, 7200 RPM, SATA, HDD

Table 33. 2.5-inch, 500 GB, 7200 RPM, SATA, HDD specifications

Capacity 500 GB		
500 GB		
7200 RPM		
7.11 mm (0.28 in.)		
69.85 mm (2.75 in.)		
100.58 mm (3.96 in.)		
SATA 3.0		
Up to 6 Gbps		
550,000 hours		
976,773,168		
Power source		
• Idle: 0.70 W		
Active: 3.25 W		
5°C to 60°C		
5% to 90%		
350G @2 ms		
Environmental non-operating conditions (non-condensing)		
-40°C to 65°C		
5% to 95%		

2.5-inch, 1 TB, 7200 RPM, SATA, HDD

Table 34. 2.5-inch, 1 TB, 7200 RPM, SATA, HDD specifications

Capacity	1 TB
Speed	7200 RPM
Height (approximate)	7.11 mm (0.28 in.)
Width (approximate)	69.85 mm (2.75 in.)
Depth (approximate)	100.58 mm (3.96 in.)

Table 34. 2.5-inch, 1 TB, 7200 RPM, SATA, HDD specifications (continued)

Interface	SATA 3.0	
Speed (maximum)	Up to 6 Gbps	
MTBF	550,000 hours	
Logical blocks	1,953,525,168	
Power source		
Power consumption (reference only)	• Idle: 0.70 W	
	Active: 3.25 W	
Environmental operating conditions (non-condensing)		
Temperature range	5°C to 60°C	
Relative humidity range	5% to 90%	
Op shock	350G @2 ms	
Environmental non-operating conditions (non-condensing)		
Temperature range	-40°C to 65°C	
Relative humidity range	5% to 95%	

M.2 2230, 512 GB, PCIe NVMe, Class 25 SSD

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

Table 35. 512 GB SSD specifications

Capacity	512 GB	
Height (approximate)	3.50 mm (0.17 in.)	
Width (approximate)	22 mm (0.87 in.)	
Depth (approximate)	30 mm (1.18 in.)	
Interface type	PCle	
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, Class 25 SSD

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

Table 36. 1 TB SSD specifications

Capacity	1 TB	
Height (approximate)	3.50 mm (0.17 in.)	
Width (approximate)	22 mm (0.87 in.)	
Depth (approximate)	30 mm (1.18 in.)	
Interface type	PCle	
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, PCIe NVMe, Class 35 SSD

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

Table 37. 256 GB SSD specifications

Capacity	256 GB	
Height (approximate)	3.50 mm (0.17 in.)	
Width (approximate)	22 mm (0.87 in.)	
Depth (approximate)	30 mm (1.18 in.)	
Interface type	PCle	
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	

Table 37. 256 GB SSD specifications (continued)

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, PCIe NVMe, Opal Self-Encrypting, Class 35 SSD

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

Table 38. 256 GB SSD, self-encrypting drive specifications

Capacity	256 GB	
Height (approximate)	2.38 mm (0.09 in.)	
Width (approximate)	22 mm (0.87 in.)	
Depth (approximate)	30 mm (1.18 in.)	
Interface type	PCle	
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 2230, 512 GB, PCIe NVMe, Class 35 SSD

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

Table 39. 512 GB SSD specifications

Capacity	512 GB
Height (approximate)	3.50 mm (0.17 in.)
Width (approximate)	22 mm (0.87 in.)
Depth (approximate)	30 mm (1.18 in.)
Interface type	PCle

Table 39. 512 GB SSD specifications (continued)

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, Class 35 SSD

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

Table 40. 1 TB SSD specifications

Capacity	1 TB	
Height (approximate)	3.50 mm (0.17 in.)	
Width (approximate)	22 mm (0.87 in.)	
Depth (approximate)	30 mm (1.18 in.)	
Interface type	PCle	
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 2280, 512 GB, PCIe NVMe, Class 40 SSD

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

Table 41. 512 GB SSD specifications

Speed (maximum) 64 Gb/s (up to 4 lanes)			
Width (approximate) Depth (approximate) Bo mm (3.15 in.) Interface type PCIe Speed (maximum) MTBF 1.4M hours Logical blocks 1,000,215,216 Power source Power consumption (reference only) Interface only Interface type O°C to 70°C Relative humidity range Depth (approximate) Environmental non-operating conditions (non-condensing)	Capacity	512 GB	
Depth (approximate) Interface type Speed (maximum) MTBF Logical blocks Power source Power consumption (reference only) Environmental operating conditions (non-condensing) Temperature range Op shock Environmental non-operating conditions (non-condensing) Environmental non-operating conditions (non-condensing) Environmental non-operating conditions (non-condensing) Temperature range O°C to 70°C Environmental non-operating conditions (non-condensing) Environmental non-operating conditions (non-condensing) Temperature range -40°C to 70°C	Height (approximate)	2.38 mm (0.17 in.)	
Interface type 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) Temperature range 0°C to 70°C Relative humidity range 10% to 90% Environmental non-operating conditions (non-condensing) Environmental non-operating conditions (non-condensing) Environmental non-operating conditions (non-condensing) Temperature range -40°C to 70°C	Width (approximate)	22 mm (0.87 in.)	
Speed (maximum) 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) Temperature range 0°C to 70°C Relative humidity range 10% to 90% Op shock Environmental non-operating conditions (non-condensing) Environmental non-operating conditions (non-condensing) Temperature range -40°C to 70°C	Depth (approximate)	80 mm (3.15 in.)	
MTBF Logical blocks 1,000,215,216 Power source Power consumption (reference only) Indicates the proper string conditions (non-condensing) Temperature range Ooc 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	Interface type	PCle	
Logical blocks Power source Power consumption (reference only) Indication is a survive of the properation	Speed (maximum)	64 Gb/s (up to 4 lanes)	
Power consumption (reference only) Idle: 5 mW (PS4 - L1.2)	MTBF	1.4M hours	
Power consumption (reference only) Idle: 5 mW (PS4 - L1.2) Active: 5 W Environmental operating conditions (non-condensing) Temperature range O°C to 70°C Relative humidity range 10% to 90% Op shock Environmental non-operating conditions (non-condensing) Temperature range -40°C to 70°C	Logical blocks	1,000,215,216	
● 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	Power source		
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	Power consumption (reference only)	1	
Relative humidity range 10% to 90% Op shock 1500G Environmental non-operating conditions (non-condensing) Temperature range -40°C to 70°C	Environmental operating conditions (non-condensing)		
Op shock 1500G Environmental non-operating conditions (non-condensing) Temperature range -40°C to 70°C	Temperature range	0°C to 70°C	
Environmental non-operating conditions (non-condensing) Temperature range -40°C to 70°C	Relative humidity range	10% to 90%	
Temperature range -40°C to 70°C	Op shock	1500G	
·	Environmental non-operating conditions (non-condensing)		
Relative humidity range 5% to 95%	Temperature range	-40°C to 70°C	
	Relative humidity range	5% to 95%	

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

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

Table 42. 512 GB SSD, self-encrypting drive specifications

Capacity	512 GB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22 mm (0.87 in.)
Depth (approximate)	80 mm (3.15 in.)
Interface type	PCle
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)	

Table 42. 512 GB SSD, self-encrypting drive 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, Class 40 SSD

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

Table 43. 1 TB SSD specifications

Capacity	1 TB	
Height (approximate)	2.38 mm (0.17 in.)	
Width (approximate)	22 mm (0.87 in.)	
Depth (approximate)	80 mm (3.15 in.)	
Interface type	PCle	
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)		
Temperature range	-40°C to 70°C	
Relative humidity range	5% to 95%	

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

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

Table 44. 1 TB SSD, self-encrypting drive specifications

Capacity	1 TB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22 mm (0.87 in.)
Depth (approximate)	80 mm (3.15 in.)

Table 44. 1 TB SSD, self-encrypting drive specifications (continued)

Interface type	PCle	
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 - 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)		
Temperature range	-40°C to 70°C	
Relative humidity range	5% to 95%	

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

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

Table 45. 2 TB SSD specifications

Capacity	2 TB	
Height (approximate)	2.38 mm (0.09 in.)	
Width (approximate)	22 mm (0.87 in.)	
Depth (approximate)	80 mm (3.15 in.)	
Interface type	PCIe Gen4	
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%	
	-	

CMOS battery

The following table lists the CMOS battery specifications of your OptiPlex Micro 7010.

Table 46. CMOS battery

Brand	Туре	Voltage	Composition	Battery life
KTS	CR2032	3.0 V	Manganese Dioxide Lithium battery	Continuous Discharge Under 15 k Ω Load to 2.0 V End-Voltage. 2 3 °C ±3 °C 1100 Hrs.
MAXELL	CR2032	3.0 V	Manganese Dioxide Lithium battery	Continuous Discharge Under 15 kΩ Load to 2.0 V End-Voltage. 20 °C ±2 °C 855 Hrs.

Accessories

The following table lists the supported accessories on your OptiPlex Micro 7010.

Table 47. Accessories

Accessories
Dell 24 Monitor - P2422H
Dell 27 Monitor - P2723D
Dell All-in-One VESA Mount for E-Series Monitors w/ Base Extender
Dell Collaboration 24 USB-C Hub Monitor - C2423HE
Dell Dual VESA Mount w/Adapter Bracket
Dell Micro All-in-One Stand - MFS22
Dell Premier Multi-Device Wireless Keyboard and Mouse - Acadia IO - KM7321W
Dell Premier Wireless ANC Headset - WL7022
Dell Single Monitor Arm - MSA20
Dell Speakerphone - SP3022
Dell UltraSharp 24 Monitor - U2422H
Dell UltraSharp Webcam - Acadia Webcam - WB7022
Dell Vertical Desktop Stand
Dell Wall/Under-the-Desk VESA Mount w/ PSU Sleeve

Security

Software security

The following table lists the software security details of your OptiPlex Micro 7010.

Table 48. Software security

Security options
McAfee Small Business Security 30-day free trial
McAfee Small Business Security 12-month subscription

Table 48. Software security (continued)

Security options

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

Dell Encryption

Dell Endpoint Security Suite Enterprise

Trusted Platform Module

The following table lists the Trusted Platform Module (TPM) of your OptiPlex Micro 7010.

Table 49. Trusted Platform Module (TPM)

TPM: ST/ST33 HTPH2X32AHD8	
SPI interface	
TPM 2.0	
FIPs 140-2 certificate	

Mil-SPEC

The OptiPlex Micro 7010 meets military specifications for the following MIL-STD 810H tests:

Table 50. Tower - Military specifications

Test Category	Test Method	Test Parameters
Altitude Storage Transport	Method 500.6 Procedure I	Test specification: Test Pressure: Equivalent to cabin altitude of 15,000ft Temperature: 21°C Altitude Change Rate: <10 m/s Duration: 1 hour Unit is non-operational during test.
Altitude Operation/Air Carriage	Method 500.6 Procedure II	Test specification: Test Pressure: Equivalent to cabin altitude of 15,000ft

Table 50. Tower - Military specifications (continued)

Test Category	Test Method	Test Parameters
		 Temperature: 21°C Altitude Change Rate: <10 m/s Duration: 1 hour Unit is non-operational during test.
High Temperature Storage and Transition	Method 501.7 Procedure I	Test specification: Duration: 7 day exposure (7 X 24 hr. cycles) Temperature: 33 - 71°C Table 501.7 Ill High temperature cycles, climate category A1 Hot Dry Unit is non-operational during test.
High Temperature Operational	Method 501.7 Procedure II	 Test specification: Duration: 5 day exposure (5 X 24 hr. cycles) Temperature: 32 - 49°C (Ambient Air) Table501.7 - III High Temperature cycle Unit is operational during test.
Low Temperature (Exaggerated)	Method 502.7 Procedure I	Test specification: Duration: 24 hour exposure Temperature: -51°C Unit is non-operational during test.
Low Temperature	Method 502.7 Procedure II	Test specification: Duration: 24 hour exposure Temperature: -29°C Unit is operational during test.
Humidity Induced (Storage &Transit) and Naturaland Cycles	Method 507.6 Procedure I	Test specification: • Duration: Refer to MIL-spec Table 507.6-II Nonhazardous test items.
Vibration Operational	Method 514.8 Procedure I - Category 4	Test specification: • Duration: Refer to MIL-spec Table 507.6-II Nonhazardous test items.
Shock Material to be Packaged	Method 516.8 Procedure II	Test specification: On-road Shock, 5.1g / 11ms (Table 516-8-VII)- Off-road Shocks 15.2g / 5ms (Table 516-8-VII)- Test unit orientations at x, y and z axis for both test. Unit is Non-Operational during both test
Bench Handling	Method 516.8 Procedure VI	 Test specification: Angle drops onto solid wooden bench thickness least 4.25 cm (1.675 inch). Test height judgement as two conditions as rise test units at one edge 100 mm (4 inch) or rise an angle of 45° about a solid wooden bench top. Unit is non-operational during test.

Table 50. Tower - Military specifications (continued)

Test Category	Test Method	Test Parameters
Sand and dust Blowing dust	Method 510.7 Procedure I	Test specification: Duration: 12 hours Air velocity = 1.5 m/s (300 ft/min) to 8.9 m/s (1750 ft/min) Temperature: 60 °C Relative Humidity: 30% Heat standard ambient temperature and 6 hours at the high storage or operating temperature Unit is non-operational during test.
Crash Hazard ShockTest	Method 516.8 Procedure V	Test specification: 185g, 2ms Half Sine 2 shocks/axis/direction for a total of 12 shocks Unit is non-operational during test.
Vibration Non- Operational	Method 514.8 Procedure I -Category 24	Test specification: Non-Operational Vibration, 20-2000 Hz, 7.69 Grms Test Duration: 1 hr/axis Unit is non-operational during test.
Functional Shock	Method 516.8 Procedure I	Test specification: 185g, 2ms Half Sine 1 shock/axis/direction for a total of 6 shocks Unit is operational during test.

Acoustic noise emission information tower

The following table lists the acoustic noise emission information of your OptiPlex Micro 7010.

Table 51. Acoustic noise emission information tower

Component	Test Configuration
CPU	I7-13700T
Memory	64 GB
HDD (#, capacity)	SSD. 2T
ODD	Not applicable
Graphics Adapter	UMA Integrated Graphics

Table 52. Declared Sound Power (LWAd)

Operating Mode	Declared Sound Power(LWAd)
Idle	2.4
HDD Operating	3.3
CPU Stressed	3.4
ODD Operating	Not applicable

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

Declared Sound Pressure (LpA)					
	Tabletop System		Floor Standing System		
Operating Mode	Operator Position	Bystander Position	Operator Position	Bystander Position	
Idle	18.6	18	N/A	N/A	
HDD Operating	26.1	24.1	N/A	N/A	
CPU Stressed	27.7	25.6	N/A	N/A	

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 | 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

Intel Standard Manageability option must be configured in our factory at the time of purchase, as it is NOT field upgradable.

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 54. 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.