

Dell Pro 24 All-in-One QC24250

Owner's Manual

Notes, cautions, and warnings

 **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.

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

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Views of Dell Pro 24 All-in-One QC24250

Right



Figure 1. Right view

1. USB 3.2 Gen 2 (10 Gbps) port with PowerShare

Connect devices such as external storage devices, printers, and external displays. Provides a data transfer speed of 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.

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



Figure 2. Left view

1. Storage drive activity light

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

2. Global headset jack

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

Front



Figure 3. Front view

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.



Figure 4. Locating the retractable camera

Retractable camera

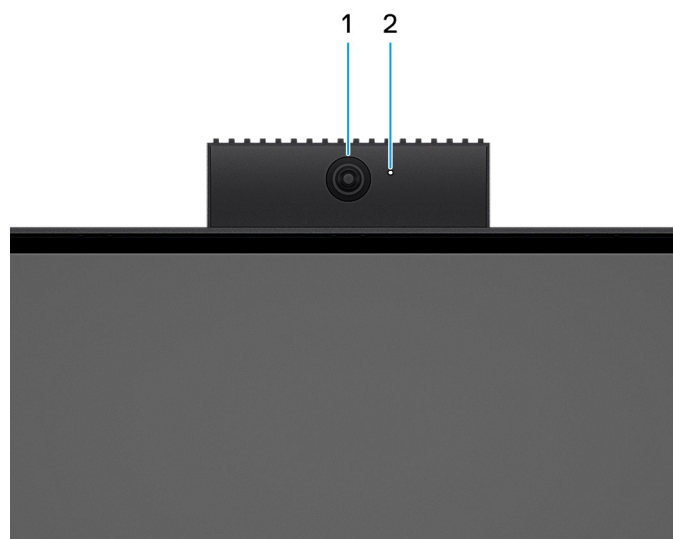


Figure 5. Retractable camera

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



Figure 6. Bottom view

1. Stand/VESA mount location

Enables to install 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 computer.

2. MyDell QR code

MyDell is your hub for content personalized to your Dell Pro 24 All-in-One QC24250, including videos, articles, manuals, and easy access to support.

3. 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.

4. Back panel

Connect USB, audio, video, and other devices.

5. SD-card slot

Insert an SD card to read from and write to the SD card.

6. USB 3.2 Gen 2 (10 Gbps) Type-C port

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

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

Press and hold this button until your computer initiates the Built-in Self Test (BIST).

Press to switch display input to and from the device connected to the HDMI-in port on the back panel.

8. 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

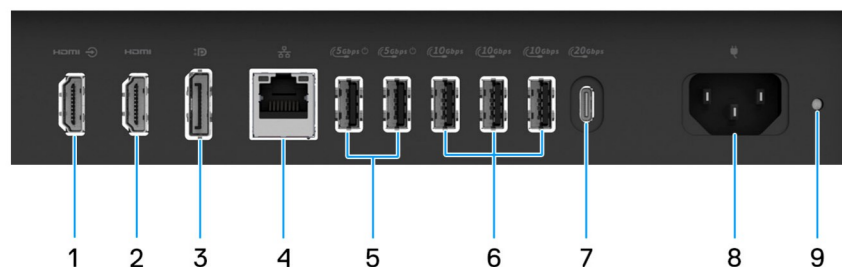


Figure 7. Back panel

1. HDMI-in 1.4 FHD/ HDCP 1.4 port

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

2. HDMI-out 2.1 TMDS 4k/ HDCP2.3 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 60 Hz.

3. DisplayPort++ 1.4a HBR3/ HDCP 2.3 port

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

4. RJ45 ethernet port (1 Gbps)

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

5. USB 3.2 Gen 1 (5 Gbps) ports with SmartPower On

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



NOTE: When USB wake is enabled in the BIOS, the computer powers on or wakes from hibernation whenever a USB mouse or keyboard that is connected to this port is used.

6. USB 3.2 Gen 2 (10 Gbps) ports

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

7. USB 3.2 Gen 2x2 (20 Gbps) Type-C port

Connect devices such as external storage devices and printers. Provides a data transfer speed of up to 20 Gbps.

8. Power-cable connector

Connect a power cable to provide power to your computer.

9. Power-supply diagnostics light

Indicates the power-supply state.

Set up your computer

Steps

1. Connect the stand base to the stand.

 **NOTE:** You can use these instructions to install any of the stand configurations offered on your computer.

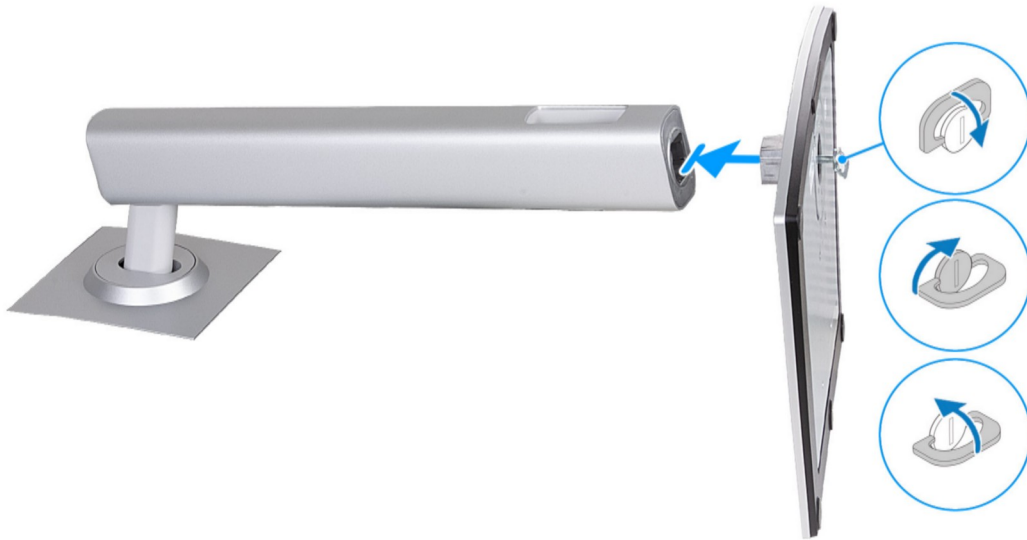


Figure 8. Installing the stand base

2. Insert the stand into the slot on the back cover and press downwards until it snaps into place.

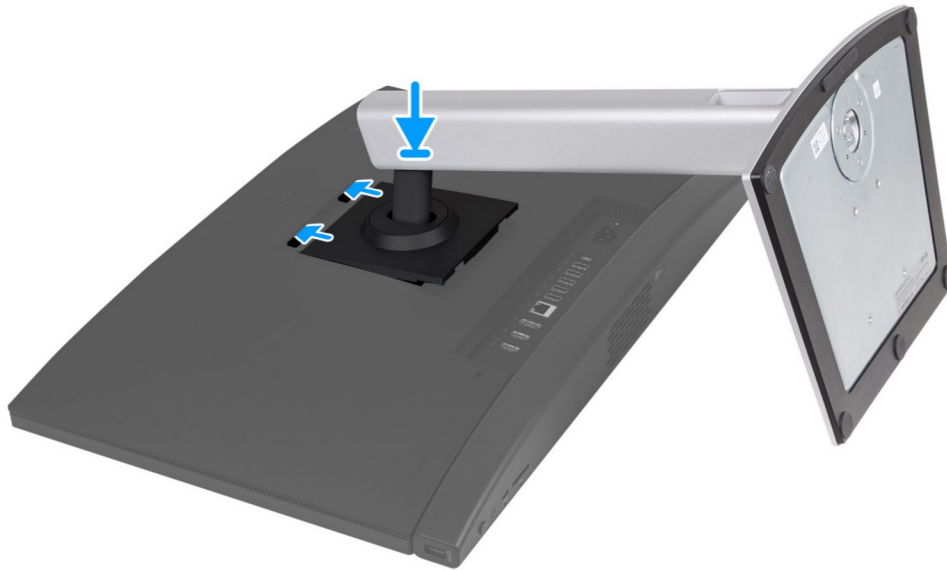


Figure 9. Installing the stand

3. Set up the keyboard and mouse.

NOTE: For setup instructions, see the documentation shipped with the keyboard and mouse.

4. Connect the power cable.



Figure 10. Connecting the power cable

5. Press the power button to turn on your computer.



Figure 11. Pressing the power button

6. Finish the operating system setup.

For Ubuntu:

Follow the on-screen instructions to complete the setup. For more information about installing and configuring Ubuntu, see the knowledge base articles at [Dell Support Site](#).

For Windows:

Follow the on-screen instructions to complete the setup. When setting up, Dell Technologies recommends that you:

- Connect to a network for Windows updates.

NOTE: If connecting to a secured wireless network, enter the password for the wireless network access when prompted.

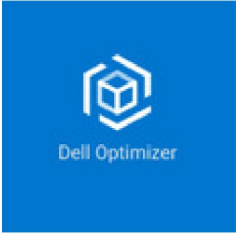
- If connected to the internet, sign-in with or create a Microsoft account. If not connected to the internet, create an offline account.

NOTE: Depending on the version of Windows installed, an internet connection may be required to set up your computer in order to sign-in to your Microsoft account or to create a Microsoft account.

- On the **Support and Protection** screen, enter your contact details.

7. Locate and use Dell apps from the Windows Start menu—Recommended.

Table 1. Locate Dell apps

Resources	Description
	Dell Optimizer is an application designed to enhance computer performance and productivity by optimizing settings for power, battery, display, collaboration touchpad, and presence detection. It also provides access to applications purchased with your new computer. For more information, see Dell Optimizer User's Guide at Dell Support Site
	Dell Product Registration Register your computer with Dell.
	Dell Help & Support Access help and support for your computer.
	SupportAssist SupportAssist is a proactive and predictive technology that offers automated technical support for Dell computers. It proactively monitors both hardware and software, addressing performance issues, preventing security threats, and automating engagement with Dell Technical Support. For more information, see SupportAssist documentation at Dell Support Site.  NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.

Specifications of Dell Pro 24 All-in-One QC24250

Dimensions and weight

The following table lists the height, width, depth, and weight of your Dell Pro 24 All-in-One QC24250.

Table 2. 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  NOTE: The weight of your computer depends on the configuration that is ordered.	• Minimum (Fixed stand): 7.12 kg (15.69 lb) • Maximum (Fixed stand): 8.43 kg (18.57 lb) • Minimum (HAS stand): 8.09 kg (17.83 lb) • Maximum (HAS stand): 9.40 kg (20.71 lb) • Minimum (without stand): 5.22 kg (11.49 lb) • Maximum (without stand): 6.53 kg (14.38 lb)

Processor

The following table lists the details of the processors supported by your Dell Pro 24 All-in-One QC24250.

Table 3. Processor

Description		Option one	Option two	Option three
Processor type		Intel Core Ultra 5 235 vPro	Intel Core Ultra 5 245 vPro	Intel Core Ultra 7 265 vPro
Processor wattage		65 W	65 W	65 W
Processor total core count		14	14	20
Performance-cores		6	6	8
Efficient-cores		8	8	12
Processor total thread count		14	14	20
 NOTE: Intel Hyper-Threading Technology is only available on Performance-cores.				
Processor speed		Up to 5.00 GHz	Up to 5.10 GHz	Up to 5.30 GHz
Performance-cores frequency				
	Processor base frequency	3.40 GHz	3.50 GHz	2.40 GHz
	Maximum turbo frequency	5.00 GHz	5.10 GHz	5.30 GHz
Efficient-cores frequency				
	Processor base frequency	2.90 GHz	3.00GHz	1.80 GHz
	Maximum turbo frequency	4.40 GHz	4.50 GHz	4.60 GHz
Processor cache		24 MB	24 MB	30 MB
Integrated graphics		Intel Graphics	Intel Graphics	Intel Graphics
AI technology		Intel AI Boost	Intel AI Boost	Intel AI Boost
Neural Processing Unit (NPU) performance		Up to 13 TOPS	Up to 13 TOPS	Up to 13 TOPS
 NOTE: Tera Operations Per Second (TOPS) is an AI performance metric that measures how many trillions of operations per second an AI processor can perform.				

Chipset

The following table lists the details of the chipset that is supported by your Dell Pro 24 All-in-One QC24250.

Table 4. Chipset

Description	Values
Chipset	Intel Q870
Processor	Intel Core Ultra 5/7
DRAM bus width	64-bit

Table 4. Chipset (continued)

Description	Values
Flash EPROM	32 MB + 32 MB
PCIe bus	Up to Gen4

Operating system

Your Dell Pro 24 All-in-One QC24250 supports the following operating systems:

- Windows 11 Home
- Windows 11 Professional
- Windows 11 Pro National Academic
- Ubuntu Linux 24.04 LTS

Memory

The following table lists the memory specifications that are supported by your Dell Pro 24 All-in-One QC24250.

Table 5. Memory specifications

Description	Values
Memory slots	Two SoDIMM slots
Memory type	DDR5
Memory speed	• up to 6400 MT/s • up to 5600 MT/s
Maximum memory configuration	64 GB
Minimum memory configuration	8 GB
Memory size per slot	8 GB, 16 GB, or 32 GB
Memory configurations supported	• 8 GB: 1 x 8 GB, DDR5, 5600 MT/s, SoDIMM, single-channel • 16 GB: 2 x 8 GB, DDR5, 5600 MT/s, SoDIMM, dual-channel • 16 GB: 1 x 16 GB, DDR5, 5600 MT/s, SoDIMM, single-channel • 32 GB: 2 x 16 GB, DDR5, 5600 MT/s, SoDIMM, dual-channel • 32 GB: 1 x 32 GB, DDR5, 5600 MT/s, SoDIMM, single-channel • 64 GB: 2 x 32 GB, DDR5, 5600 MT/s, SoDIMM, dual-channel • 8 GB: 1 x 8 GB, DDR5, 6400 MT/s, SoDIMM, single-channel • 16 GB: 2 x 8 GB, DDR5, 6400 MT/s, SoDIMM, dual-channel • 16 GB: 1 x 16 GB, DDR5, 6400 MT/s, SoDIMM, single-channel • 32 GB: 2 x 16 GB, DDR5, 6400 MT/s, SoDIMM, dual-channel

External ports and slots

The following table lists the external ports and slots of your Dell Pro 24 All-in-One QC24250.

Table 6. External ports and slots

Description	Values
Network port	One RJ45 ethernet port (1 Gbps)
USB ports	- One USB 3.2 Gen 2 (10 Gbps) port with PowerShare - One USB 3.2 Gen 2x2 (20 Gbps) Type-C port - Three USB 3.2 Gen 2 (10 Gbps) ports - Two USB 3.2 Gen 1 (5 Gbps) ports with SmartPower On - One USB 3.2 Gen 2 (10 Gbps) Type-C port
Audio port	One global headset jack
Video port(s)	- One DisplayPort++ 1.4a HBR3/HDCP 2.3 port - One HDMI-out 2.1 TMDS 4k/HDCP 2.3 port - One HDMI-in 1.4 FHD/HDCP 1.4 port
Media-card reader	One SD-card 4.0 slot
Power-adaptor port	One power-cable connector
Security-cable slot	One security-cable slot (3 mm x 7 mm, T-Bar design)

Internal slots

The following table lists the internal slots on your Dell Pro 24 All-in-One QC24250.

Table 7. Internal slots

Description	Values
M.2	- One M.2 2230 slot for Wi-Fi and Bluetooth combo card - Two M.2 2230/2280 slot for solid-state drive  NOTE: To learn more about the features of different types of M.2 cards, search in the Knowledge Base Resource at Dell Support Site.
SATA	NA

Ethernet

The following table lists the wired ethernet Local Area Network (LAN) specifications of your Dell Pro 24 All-in-One QC24250.

Table 8. Ethernet specifications

Description	Values
Model	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 Dell Pro 24 All-in-One QC24250.

Table 9. Wireless module specifications

Description	Option one	Option two	Option three
Model number	Intel Wi-Fi 6E AX211	Intel Wi-Fi 7 BE200	MediaTek Wi-Fi 6 MT7920
Transfer rate	Up to 2400 Mbps	Up to 5760 Mbps	Up to 1200 Mbps
Frequency bands supported	2.4 GHz/5 GHz/6 GHz	2.4 GHz/5 GHz/6 GHz	2.4 GHz/5 GHz
Wireless standards	• Wi-Fi 802.11a/b/g • Wi-Fi 4 (Wi-Fi 802.11n) • Wi-Fi 5 (Wi-Fi 802.11ac) • Wi-Fi 6E (Wi-Fi 802.11ax)	• Wi-Fi 802.11a/b/g • Wi-Fi 4 (Wi-Fi 802.11n) • Wi-Fi 5 (Wi-Fi 802.11ac) • Wi-Fi 6 (Wi-Fi 802.11ax) • Wi-Fi 7 (Wi-Fi 802.11be)	• Wi-Fi 802.11a/b/g • Wi-Fi 4 (Wi-Fi 802.11n) • Wi-Fi 5 (Wi-Fi 802.11ac) • Wi-Fi 6 (Wi-Fi 802.11ax)
Encryption	• 64-bit/128-bit WEP • AES-CCMP • TKIP	• 64-bit/128-bit WEP • AES-CCMP • TKIP	• 64-bit/128-bit WEP • AES-CCMP • TKIP
Bluetooth wireless card	Bluetooth 5.3	Bluetooth 5.4	Bluetooth 5.4
	 NOTE: The functionality of the Bluetooth wireless card may vary depending on the operating system that is installed on your computer.		

Audio

The following table lists the audio specifications of your Dell Pro 24 All-in-One QC24250.

Table 10. Audio specifications

Description	Values
Audio controller	Realtek ALC3289
Stereo conversion	Supported
Internal audio interface	High Definition Audio (HDA) interface
External audio interface	One global headset jack
Number of speakers	Two stereo speakers
Internal-speaker amplifier	Supported
External volume controls	Not applicable
Speaker output:	
Average	3 W x 2 = 6 W
Microphone	Two microphones in the retractable-camera assembly

Storage

This section lists the storage options on your Dell Pro 24 All-in-One QC24250.

Your Dell Pro 24 All-in-One Plus QC24250 supports a combination of :

- Up to two M.2 2230 solid-state drive

The primary drive of your Dell Pro 24 All-in-One Plus QC24250 varies with the storage configuration. For computers, with a M.2 drive, the M.2 drive is the primary drive.

Table 11. Storage specifications

Storage type	Interface type	Capacity
M.2 2230 Solid State Drive	QLC PCIe Gen4 NVMe, up to 64 Gbps	Up to 2 TB
M.2 2230 Solid State Drive	TLC PCIe Gen4 NVMe, up to 64 Gbps	Up to 512 GB

Media-card reader

The following table provides the specification of media cards that are supported by your Dell Pro 24 All-in-One QC24250.

Table 12. Media-card reader specifications

Description	Values
Media-card slot type	One SD-card 4.0 slot
Media-cards supported	• Secure Digital (SD) • Secure Digital High Capacity (SDHC) • Secure Digital Extended Capacity (SDXC)
NOTE: The maximum capacity that is supported by the media-card reader varies depending on the standard of the media card that is installed on your computer.	

Camera

The following table lists the camera specifications of your Dell Pro 24 All-in-One QC24250.

Table 13. Camera specifications

Description		Values
Number of cameras		One
Camera type		FHD RGB camera
Camera location		Retractable camera at the top of the computer
Camera sensor type		CMOS sensor technology
Camera resolution:		
	Still image	2.07 megapixels
	Video	1920 x 1080 (FHD) at 30 fps
Diagonal viewing angle		82 degrees

Power ratings

The following table lists the power rating specifications of Dell Pro 24 All-in-One QC24250.

Table 14. Power ratings

Description		Option one
Type		160 W internal power supply unit (80PLUS Bronze Certified)
Input voltage		90 VAC–264 VAC
Input frequency		47 Hz–63 Hz
Input current (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 VA • 19.50 VB
Temperature range:		
	Operating	5°C to 42°C (41°F to 107.6°F)
	Storage	-40°C to 70°C (-40°F to 158°F)

Power supply connector

The following table lists the Power supply connector specifications of your Dell Pro 24 All-in-One QC24250.

Table 15. Power supply connector

Power supply	Connectors
160 W internal power supply unit (80PLUS Bronze Certified)	• 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 Dell Pro 24 All-in-One QC24250.

Table 16. Display specifications

Description	Option one	Option two
Display type	Full High Definition (FHD), ComfortView Plus	Full High Definition (FHD), ComfortView Plus
Touch options	Non-touch	Touch
Display-panel technology	In-Plane Switching (IPS)	In-Plane Switching (IPS)

Table 16. Display specifications (continued)

Description		Option one	Option two
Display-panel 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
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 (minimum)		1050:1, minimum 1500:1, typical	700:1, minimum 1000:1, typical
Response time (maximum)		20 ms, minimum 14 ms, typical	20 ms, minimum 14 ms, typical
Refresh rate		100 Hz (maximum)	75 Hz (maximum)
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)		15.18 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 Dell Pro 24 All-in-One QC24250.

Table 17. GPU—Integrated

Controller	External display support	Memory size	Processor
Intel Graphics	- One DisplayPort++ 1.4a HBR3/HDCP 2.3 port (5120 x 3200@60 Hz) - One HDMI-out 2.1 TMDS 4k/HDCP2.3 port (4096 x 2160@60 Hz)	Shared system memory	Intel Core Ultra 5/7