

Inspiron 24 5430 All-in-One

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 Inspiron 24 5430 All-in-One

Right



Figure 1. Right view

1. **USB 3.2 Gen 2 Type-C port**

Connect devices such as external storage devices and printers.

Provides data transfer speeds up to 10 Gbps.

NOTE: Connected USB devices will not charge when the computer is turned off or in sleep state. Turn on the computer to charge the connected USB devices.

Front



Figure 2. Front view

1. Retractable-camera assembly

Enables you to videochat, capture photos, and record videos. This camera can be retracted to protect your privacy.

2. Display panel

Provides visual output to the user.

3. Speakers

Provides audio output.

Back



Figure 3. Back view

1. Back cover

Removable chassis that covers the internal components of your computer.

2. Back panel

Connect USB, audio, video, and other devices.

3. Stand

Allows the system to be mounted vertically.

Back panel

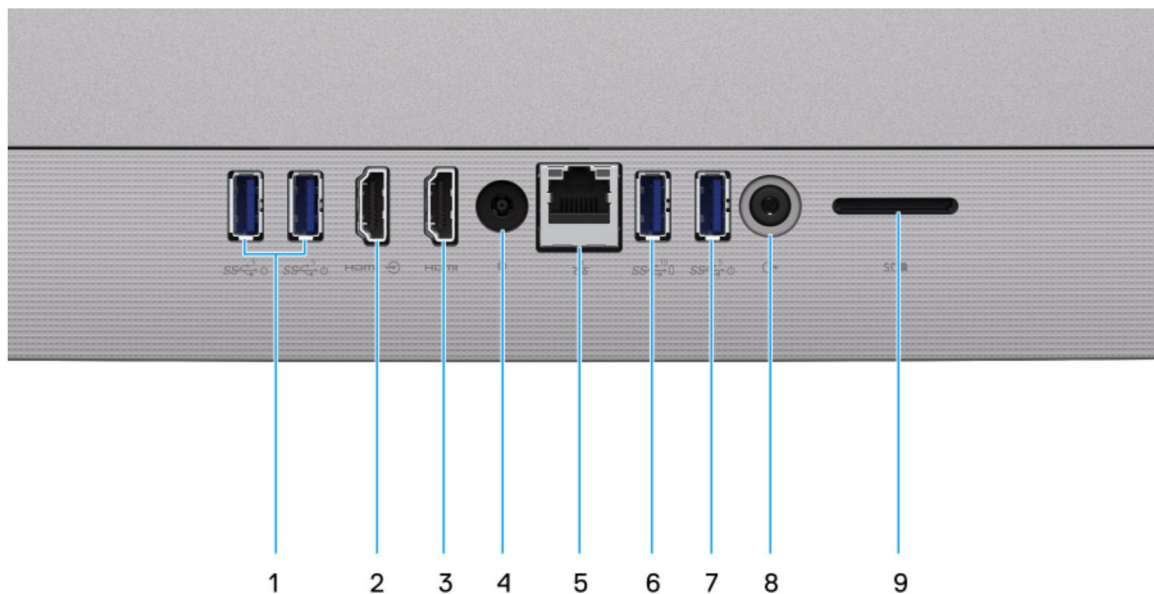


Figure 4. Back panel

1. 2 USB 3.2 Gen 1 port with Power on/Wake-up support

Connect peripherals such as external storage devices and printers. Provides data transfer speeds up to 5 Gbps. Wake the computer from standby with the keyboard or mouse connected to this port.

NOTE: Set the BIOS Deep Sleep control to disabled to enable Wake up when the computer is powered off.

2. HDMI-in port

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

3. HDMI port

Connect to a TV, external display or another HDMI-in enabled device. Provides video and audio output.

4. Power-adapter port

Connect a power adapter to provide power to your computer and charge the battery.

5. Network port

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

6. USB 3.2 Gen 2 port with PowerShare

Connect peripherals such as external storage devices and printers.

Provides data transfer speeds up to 10 Gbps. PowerShare enables you to charge connected USB devices.

NOTE: Connected USB devices will not charge when the computer is turned off. Please set BIOS Deep Sleep control to disabled to start charging when the computer is powered off.

7. USB 3.2 Gen 1 port with Power on/Wake-up support

Connect peripherals such as external storage devices and printers. Provides data transfer speeds up to 5 Gbps. Wake the computer from standby with the keyboard or mouse connected to this port.

NOTE: Set the BIOS Deep Sleep control to disabled to enable Wake up when the computer is powered off.

8. Universal headset jack

Connect audio-output devices such as speakers, amplifiers, and so on.

9. **SD-card slot**

Reads from and writes to the SD card. The computer supports the following card types:

- Secure Digital (SD)
- Secure Digital High Capacity (SDHC)
- Secure Digital Extended Capacity (SDXC)

Bottom

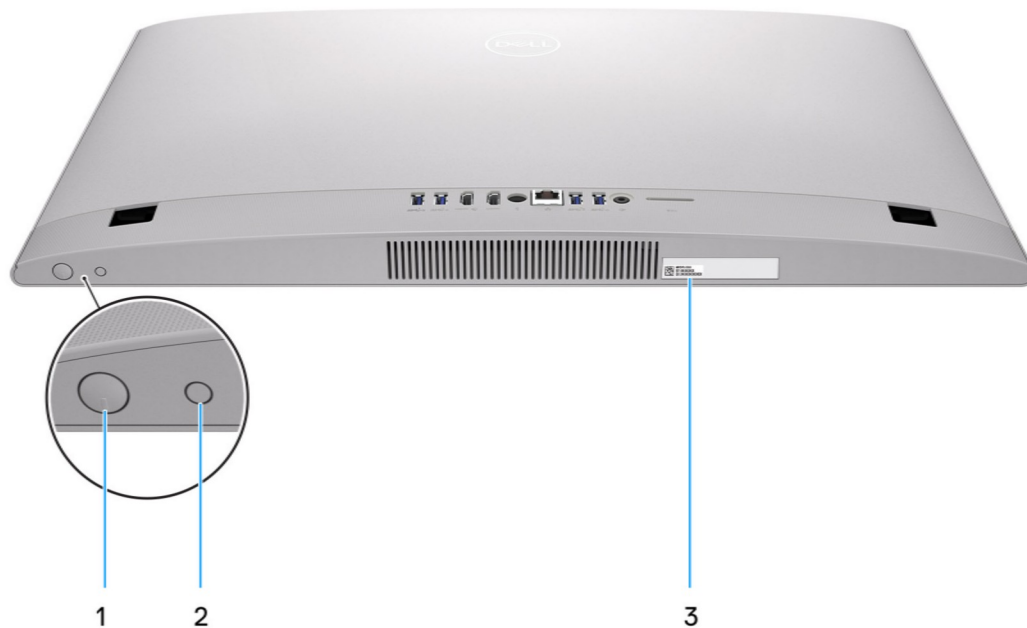


Figure 5. Bottom view

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. **Display Built-in Self Test button/Input-source selection button**

This button has two functions:

- When the computer is on, use this button to select the video input-source.
Press the button to switch the display between the internal system display and HDMI input.
- When the computer is off (there is no power; neither is it in sleep state nor hibernate state), use this button to run the built-in self-test for the display.
Press and hold down this button, and then press the power button to turn on the computer. The built-in color pattern for the LCD monitor will appear on the screen.

For more information, see [Troubleshooting](#).

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.

Service Tag

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



Figure 6. Service Tag location

Tilt

Y stand



Isosceles stand



Retractable camera

Push the top of camera to extend or retract the camera. Extend the camera before use and retract the camera to protect your privacy when not in use.



Inside view of your computer

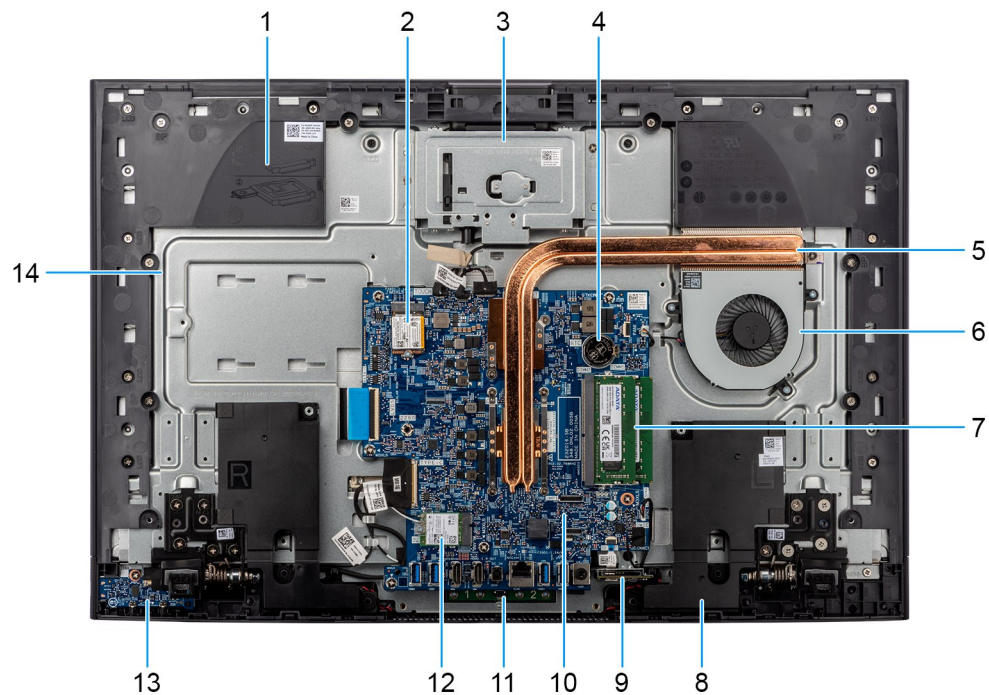


Figure 7. Inside view of your computer

1. Base panel
2. Solid-state drive slot
3. Camera module
4. Coin-cell battery
5. Heat sink
6. Fan
7. Memory module
8. Speaker
9. Media-card reader
10. System board
11. Microphone module
12. Wireless card slot
13. Power-button board with USB
14. Display-assembly base

Set up your Inspiron 24 5430 All-in-One

About this task

NOTE: The images in this document may differ from your computer depending on the configuration you ordered.

Steps

1. Set up the stand by inserting it into the slot on the back cover until it snaps into place.



Figure 8. Install the stand

2. Connect the keyboard and mouse.

NOTE: To connect your wireless keyboard and mouse, find User Guides and other resources for your products at [Dell Support Site](#).

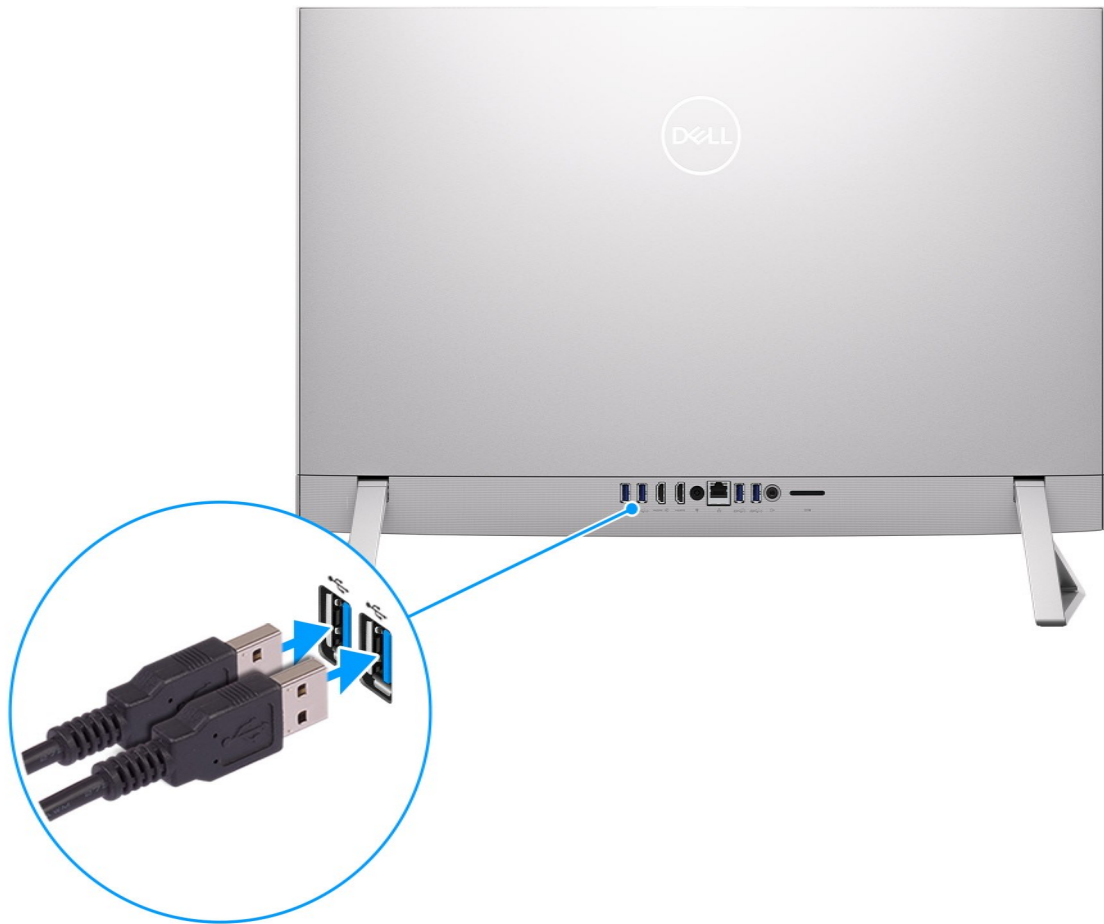


Figure 9. Connect the keyboard and mouse

3. Connect to your network using a cable.

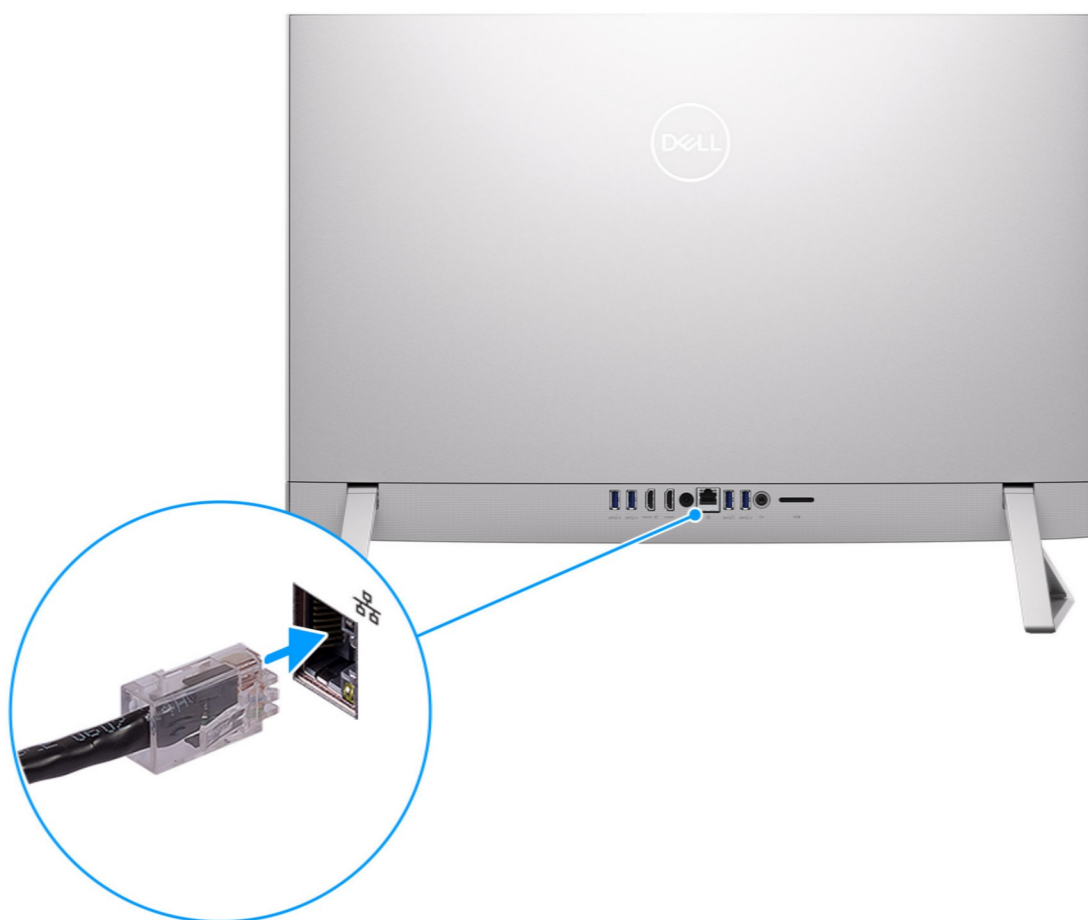


Figure 10. Connect to a network

NOTE: Alternatively, you can connect to a wireless network.

4. Connect the power adapter.



Figure 11. Connect the power adapter .

5. Press the power button.



Figure 12. Press the power button

6. Finish the operating system setup.

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.
- 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 in Windows in S-mode

Resources	Description
	Dell Product Registration Register your computer with Dell.
	Dell Help & Support Access help and support for your computer.

Table 1. Locate Dell apps in Windows in S-mode (continued)

Resources	Description
	SupportAssist SupportAssist proactively and predictively identifies hardware and software issues on your computer and automates the engagement process with Dell Technical support. It addresses performance and stabilization issues, prevents security threats, monitors, and detects hardware failures. For more information, see SupportAssist for Home PCs User's Guide.  NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.

Table 2. Locate Dell apps in Windows

Resources	Description
	MyDell (replaced with Dell Optimizer) MyDell (replaced with Dell Optimizer) is a software application that offers you a single streamlined engagement platform including account access, device information, and hardware settings. This software delivers intelligent features that automatically fine-tune your computer for the best possible audio, power, and performance. Get the most out of your Dell device with intelligent, personalized technology from MyDell (replaced with Dell Optimizer). Following are the key features of MyDell (replaced with Dell Optimizer): • Application • Audio • Power • Color and Display • Presence detection For more information about how to use MyDell (replaced with Dell Optimizer), see product guides at Dell Support Site.
	Dell Update Updates your computer with critical fixes and latest device drivers as they become available. For more information about using Dell Update, see the product guides and third-party license documents at Dell Support Site.
	Dell Digital Delivery Download software applications, which are purchased but not preinstalled on your computer. For more information about using Dell Digital Delivery, search in the Knowledge Base Resource at Dell Support Site.
	SupportAssist SupportAssist proactively and predictively identifies hardware and software issues on your computer and automates the engagement process with Dell Technical support. It addresses performance and stabilization issues, prevents security threats, monitors, and detects hardware failures. For more information, see SupportAssist for Home PCs User's Guide.  NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.

Specifications of Inspiron 24 5430 All-in-One

Dimensions and weight

The following table lists the height, width, depth, and weight of your Inspiron 24 5430 All-in-One.

Table 3. Computer dimensions and weight (without stand)

Description		Values
Height		
	Front	353.82 mm (13.92 in.) i NOTE: The height of your computer varies depending on the stand installed.
	Rear	358.54 mm (14.11 in.) i NOTE: The height of your computer varies depending on the stand installed.
Width		542.70 mm (21.36 in.)
Depth		40.20 mm (1.58 in.)
Weight		- Maximum weight (non-touchscreen)- 5.29 kg (11.65 lb) - Maximum weight (touchscreen)- 5.32 kg (11.72 lb) i NOTE: The weight of your computer varies depending on the configuration ordered and the manufacturing variability.

Stand

The following table provides the height, width, depth, and weight of the stand supported by your Inspiron 24 5430 All-in-One

Table 4. Stand

Description	Y stand	Isosceles stand
Height	96.62 mm (3.81 in.)	97.56 mm (3.84 in.)
Width	72.25 mm (2.84 in.)	66.95 mm (2.63 in.)
Depth	199.55 mm (7.85 in.)	200.77 mm (7.90 in.)
Weight	0.24 kg (0.53 lb)	0.32 kg (0.70 lb)

Y stand

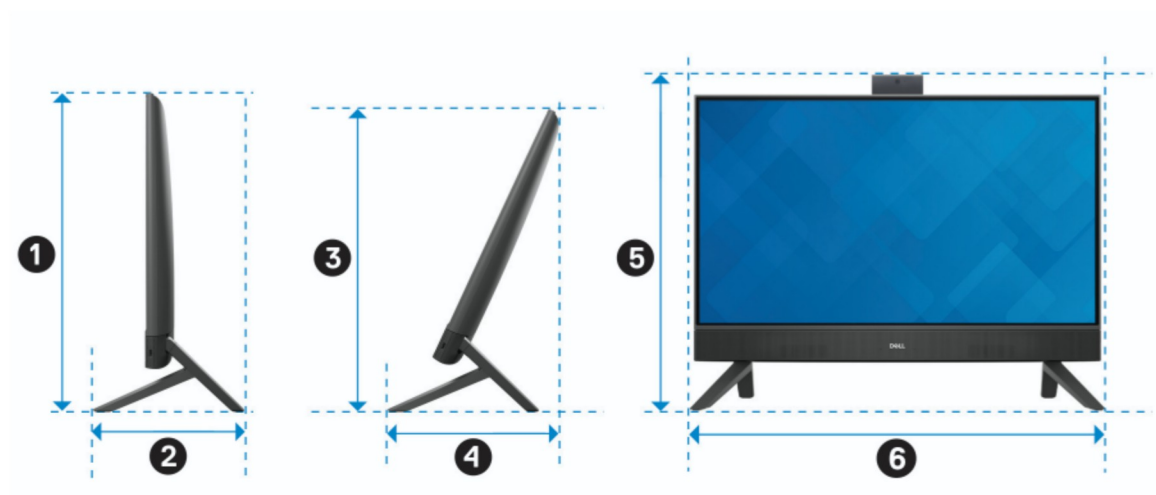


Figure 13. Y stand dimensions

The following table provides the dimensions of the computer with Y stand installed.

Table 5. Y stand dimensions

Description	Dimensions
①	414.30 mm (16.31 in.)
②	199.55 mm (7.86 in.)
③	390.71 mm (15.38 in.)
④	228.19 mm (8.98 in.)
⑤	440.30 mm (17.34 in.)
⑥	539.11 mm (21.22 in.)

Isosceles stand

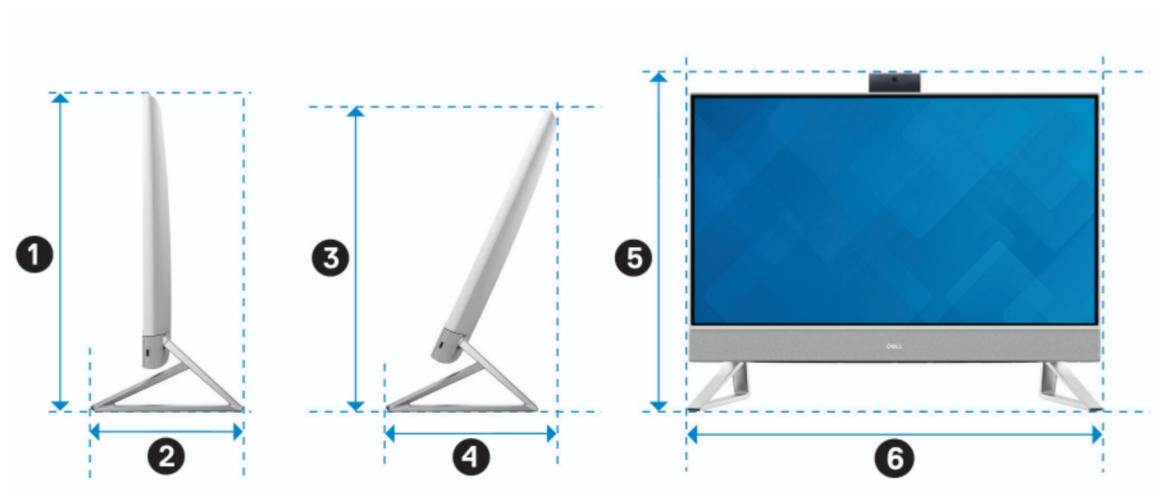


Figure 14. Isosceles stand dimensions

The following table provides the dimensions of the computer with Isosceles stand installed.

Table 6. Isosceles stand

Description	Dimensions
①	414.30 mm (16.31 in.)
②	200.70 mm (7.90 in.)
③	390.71 mm (15.38 in.)
④	228.87 mm (9.01 in.)
⑤	440.30 mm (17.34 in.)
⑥	531.50 mm (20.92 in.)

Processor

The following table lists the details of the processors that are supported in your Inspiron 24 5430 All-in-One.

Table 7. Processor

Description	Option one	Option two	Option three	Option four	Option five
Processor type	Intel Core 3-100U Processor	Intel Core 5-120U Processor	Intel Core 7-150U Processor	Intel Core i5-1334U Processor	Intel Core i7-1355U Processor
Processor wattage	15 W	15 W	15 W	15 W	15 W
Processor total core count	6	10	10	10	10
Performance-cores	2	2	2	2	2
Efficient-cores	4	8	8	8	8

Table 7. Processor (continued)

Description	Option one	Option two	Option three	Option four	Option five
Processor total thread count	8	12	12	12	12
 NOTE: Intel Hyper-Threading Technology is only available on Performance-cores.					
Processor speed	Up to 4.70 GHz	Up to 5.00 GHz	Up to 5.40 GHz	Up to 4.60 GHz	Up to 5.00 GHz
Frequency—Performance cores					
Processor base frequency	1.20 GHz	1.40 GHz	1.80 GHz	1.30 GHz	1.70 GHz
Maximum turbo frequency	4.70 GHz	5.00 GHz	5.40 GHz	4.60 GHz	5.00 GHz
Frequency—Efficient cores					
Processor base frequency	1.20 GHz	1.40 GHz	1.80 GHz	0.90 GHz	1.20 GHz
Maximum turbo frequency	3.30 GHz	3.80 GHz	4.00 GHz	3.40 GHz	3.70 GHz
Thermal Mode/Thermal Design Power (TDP)					
Cool	Not supported	Not supported	Not supported	Not supported	Not supported
Optimized	Not supported	Not supported	Not supported	Not supported	Not supported
Quiet	Not supported	Not supported	Not supported	Not supported	Not supported
Ultra Performance	15 W to 16 W	15 W to 16 W	15 W to 18 W	15 W to 16 W	15 W to 18 W
	 NOTE: Processor clock speeds and thermal design power differ according to the thermal mode selected in the My Dell app on your computer.				
Processor cache	10 MB	12 MB	10 MB	12 MB	12 MB
Integrated graphics	Intel UHD Graphics	Intel Iris Xe Graphics	Intel Iris Xe Graphics	Intel Iris Xe Graphics	Intel Iris Xe Graphics

Chipset

The following table lists the details of the chipset that is supported in your Inspiron 24 5430 All-in-One.

Table 8. Chipset

Description	Values
Chipset	Integrated in the processor
Processor	Intel Core 3/5/7 Processor

Table 8. Chipset (continued)

Description	Values
	- Intel Core i5-1334U Processor - Intel Core i7-1355U Processor
DRAM bus width	64-bit
Flash EPROM	32 MB
PCIe bus	Up to Gen4

Operating system

Your Inspiron 24 5430 All-in-One supports the following operating systems:

- Windows 11 Home
- Windows 11 Pro

Memory

The following table lists the memory specifications of your Inspiron 24 5430 All-in-One.

Table 9. Memory specifications

Description	Values
Memory slots	Two SODIMM slots
Memory type	DDR4
Memory speed	3200 MT/s
Maximum memory configuration	32 GB
Minimum memory configuration	8 GB
Memory size per slot	8 GB, 16 GB, and 32 GB
Memory configurations supported	8 GB: 1 x 8 GB, DDR4, 3200 MT/s, single-channel 16 GB: 2 x 8 GB, DDR4, 3200 MT/s, dual-channel 16 GB: 1 x 16 GB, DDR4, 3200 MT/s, single-channel 32 GB: 2 x 16 GB, DDR4, 3200 MT/s, dual-channel 32 GB: 1 x 32 GB, DDR4, 3200 MT/s , single-channel

External ports and slots

The following table lists the external ports and slots of your Inspiron 24 5430 All-in-One.

Table 10. External ports and slots

Description	Values
Network port	One RJ45 ethernet port

Table 10. External ports and slots (continued)

Description	Values
USB ports	- Three USB 3.2 Gen 1 ports with Power on/Wake-up support - One USB 3.2 Gen 2 port with PowerShare - One USB 3.2 Type-C Gen 2 port
Audio port	One Universal headset jack
Video port(s)	- One HDMI-out 1.4 - One HDMI-in 1.4
Media-card reader	One SD-card 3.0 slot
Power-adaptor port	One 4.50 mm x 2.90 mm DC-in port
Security-cable slot	Not supported

Internal slots

The following table lists the internal slots of your Inspiron 24 5430 All-in-One.

Table 11. Internal slots

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

Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Inspiron 24 5430 All-in-One.

Table 12. Ethernet specifications

Description	Values
Model	RTL8111HSD-CG
Transfer rate	10/100/1000 Mbps

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module that is supported on your Inspiron 24 5430 All-in-One.

Table 13. Wireless module specifications

Description	Values
Model number	Intel AX211
Transfer rate	Up to 2400 Mbps

Table 13. Wireless module specifications (continued)

Description	Values
Frequency bands supported	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) • Wi-Fi 6/6E (WiFi 802.11ax)
Encryption	• 64-bit/128-bit WEP • AES-CCMP • TKIP
Bluetooth wireless card	Bluetooth 5.3

Audio

The following table lists the audio specifications of your Inspiron 24 5430 All-in-One.

Table 14. Audio specifications

Description	Values
Audio controller	Realtek ALC3289
Stereo conversion	Supported
Internal audio interface	High definition audio interface
External audio interface	One Universal headset Jack
Number of speakers	2
Internal-speaker amplifier	Supported
External volume controls	Not supported
Speaker output:	
Average	5 W x 2 = 10
Peak	6 W x 2 = 12
Microphone	Digital-array microphones in camera assembly

Storage

This section lists the storage options on your Inspiron 24 5430 All-in-One.

Your Inspiron 24 5430 All-in-One supports the M.2 2230 solid-state drive as the primary storage device.

Table 15. Storage specifications

Storage type	Interface type	Capacity
M.2 2230, solid-state drive	Gen4 x4 PCIe NVMe, up to 64 Gbps	Up to 1 TB
M.2 2230, solid-state drive	QLC Gen4 x4 PCIe NVMe, up to 64 Gbps	Up to 1 TB

Media-card reader

The following table provides the specification of media cards supported by your Inspiron 24 5430 All-in-One.

Table 16. Media-card reader specifications

Description	Values
Media-card slot type	One SD-card 3.0 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 Inspiron 24 5430 All-in-One.

Table 17. Camera specifications

Description		Option one	Option two
Number of cameras		One	One
Camera type		FHD RGB camera	5 MP RGB + Infrared camera
Camera location		Front camera	Front camera
Camera sensor type		CMOS sensor technology	CMOS sensor technology
Camera resolution:			
	Still image	2.07 megapixels	4.92 megapixels
	Video	1920 x 1080 (FHD) at 30 fps	2560 x 1920 (5 MP) at 30 fps
Infrared camera resolution:			
	Still image	Not supported	0.23 megapixels
	Video	Not supported	640 x 360 at 15 fps
Diagonal viewing angle:			
	Camera	82 degrees	92 degrees
	Infrared camera	Not supported	77.90 degrees

Power adapter

The following table lists the power adapter specifications of your Inspiron 24 5430 All-in-One.

Table 18. Power-adapter specifications

Description		Option one	Option two
Type		90W AC	130W AC
Connector dimensions:			
	External diameter	4.50 mm (0.17 in.)	4.50 mm (0.17 in.)
	Internal diameter	2.90 mm (0.11 in.)	2.90 mm (0.11 in.)
Power-adapter dimensions:			
	Height	32.00 mm (1.50 in.)	25.40 mm (1.00 in.)
	Width	52.00 mm (2.00 in.)	76.20 mm (3.00 in.)
	Depth	128.00 mm (5.00 in.)	154.70 mm (6.10 in.)
Input voltage		100 VAC–240 VAC	100 VAC–240 VAC
Input frequency		50 Hz–60 Hz	50 Hz–60 Hz
Input current (maximum)		1.50 A	2.50 A
Output current (continuous)		4.62 A (continuous)	6.70 A (continuous)
Rated output voltage		19.50 VDC	19.50 VDC
Temperature 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.			

Display

The following table lists the display specifications of your Inspiron 24 5430 All-in-One.

Table 19. Display specifications

Description		Option one	Option two
Display type		23.8", Full High Definition (FHD)	23.8", Full High definition (FHD)
Touch options		Touch support with 10 touch points	Not supported
Display-panel technology		Wide View Angle (WVA)	Wide view Angle (WVA)
Display-panel dimensions (active area):			
	Height	296.46 mm (11.67 in.)	296.46 mm (11.67 in.)

Table 19. Display specifications (continued)

Description		Option one	Option two
	Width	527.04 mm (20.75 in.)	527.04 mm (20.75 in.)
	Diagonal	604.70 mm (23.80 in.)	604.70 mm (23.80 in.)
Display-panel native resolution		1920 x 1080	1920 x 1080
Luminance (typical)		300 nits	250 nits
Megapixels		2.07 megapixels	2.07 megapixels
Color gamut		99% (sRGB) - typical	99% (sRGB) - typical
Pixels Per Inch (PPI)		92	92
Contrast ratio (minimum)		700:1	700:1
Response time (maximum)		25 ms	25 ms
Refresh rate		60 Hz	60 Hz
Horizontal view angle		• +/- 85 degrees (typ.) • +/- 89 degrees (min.)	• +/- 85 degrees (typ.) • +/- 89 degrees (min.)
Vertical view angle		• +/- 85 degrees (typ.) • +/- 89 degrees (min.)	• +/- 85 degrees (typ.) • +/- 89 degrees (min.)
Pixel pitch		0.2745 mm x 0.2745 mm	0.2745 mm x 0.2745 mm
Power consumption (maximum)		17.26W	14.11W
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 Inspiron 24 5430 All-in-One.

Table 20. GPU—Integrated

Controller	Memory size	Processor
Intel UHD Graphics	Shares system memory	Intel Core 3-100U Processor
Intel Iris X ^e Graphics	Shares system memory	• Intel Core 5/7 Processor • Intel Core i5-1334U Processor

GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Inspiron 24 5430 All-in-One.

Table 21. GPU—Discrete

Controller	Memory size	Memory type
NVIDIA GeForce MX570A	2 GB	GDDR6

Environmental

The following table lists the environmental specifications of your Inspiron 24 5430 All-in-One.

Table 22. Environmental

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

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

Regulatory compliance

The following table lists the regulatory compliance of your Inspiron 24 5430 All-in-One.

Table 23. Regulatory compliance

Regulatory compliance
US CEC MEPS compliant configurations available
Australia and New Zealand MEPS compliant configurations available
CEL
WEEE
Japan Energy Law
South Korea E-standby
EU RoHS
China RoHS

Operating and storage environment

This table lists the operating and storage specifications of your Inspiron 24 5430 All-in-One.

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

Table 24. 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)*	0.66 GRMS	1.30 GRMS
Shock (maximum)	110 G†	160 G†
Altitude range	0 m to 3048 m (0 ft to 10000 ft)	0 m to 10668 m (0 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.		

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

† Measured using a 2 ms half-sine pulse.

Dell support policy

For information about Dell support policy, search in the Knowledge Base Resource at [Dell Support Site](#).