

Dell 16 Premium

DA16250

Setup and Specifications

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 16 Premium DA16250

Right



Figure 1. Right view

For computers shipped with integrated Intel Arc Graphics, NVIDIA GeForce RTX 5050, or NVIDIA GeForce RTX 5060 GPUs:

1. microSD-card slot v7.1

The microSD-card slot reads from and writes to the microSD card. The computer supports the following card types:

- microSecure Digital (microSD)
- microSecure Digital High Capacity (microSDHC)
- microSecure Digital Extended Capacity (microSDXC)

2. Thunderbolt 4 port with Power Delivery and DisplayPort

Supports USB4, DisplayPort 2.1, Thunderbolt 4 and also enables you to connect to an external display using a display adapter. Provides data transfer rates of up to 40 Gbps for USB4 and Thunderbolt 4.

NOTE: You can connect a Dell Docking Station to the Thunderbolt 4 ports. For more information, search in the Knowledge Base Resource at [Dell Support Site](#).

NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.

NOTE: Thunderbolt 4 is backward compatible with USB 3.2, USB 2.0, and Thunderbolt 3.

NOTE: Thunderbolt 4 supports two 4K displays or one 8K display.

3. Headset port

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

For computers shipped with NVIDIA GeForce RTX 5070 GPU:

1. microSD-card slot v7.1

The microSD-card slot reads from and writes to the microSD card. The computer supports the following card types:

- microSecure Digital (microSD)
- microSecure Digital High Capacity (microSDHC)
- microSecure Digital Extended Capacity (microSDXC)

2. Thunderbolt 5 (Up to 120 Gbps) port with Power Delivery and DisplayPort

Supports DisplayPort 2.1, Thunderbolt 5 and also enables you to connect to an external display using a display adapter. Provides data transfer rates of up to 120 Gbps with Bandwidth Boost.

NOTE: The power adapter is to be connected to one of these Thunderbolt 5 ports.

NOTE: You can connect a Dell Docking Station to the Thunderbolt 5 ports. For more information, search in the Knowledge Base Resource at [Dell Support Site](#).

NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.

NOTE: Thunderbolt 5 is compatible with USB4, USB 3.2, USB 2.0, Thunderbolt 4, and Thunderbolt 3.

NOTE: Thunderbolt 5 supports up to three 4K displays or two 8K displays.

3. Headset port

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

Left



Figure 2. Left view

For computers shipped with integrated Intel Arc Graphics, NVIDIA GeForce RTX 5050, or NVIDIA GeForce RTX 5060 GPUs:

1. Two Thunderbolt 4 ports with Power Delivery and DisplayPort

Supports USB4, DisplayPort 2.1, Thunderbolt 4 and also enables you to connect to an external display using a display adapter. Provides data transfer rates of up to 40 Gbps for USB4 and Thunderbolt 4.

NOTE: You can connect a Dell Docking Station to the Thunderbolt 4 ports. For more information, search in the Knowledge Base Resource at the [Dell Support Site](#).

NOTE: Use the supplied USB Type-C to USB Type-A and HDMI adapter to connect to an external display.

NOTE: USB4 is backward compatible with USB 3.2, USB 2.0, and Thunderbolt 3.

NOTE: Thunderbolt 4 supports two 4K displays or one 8K display.

For computers shipped with NVIDIA GeForce RTX 5070 GPU:

1. Two Thunderbolt 5 (Up to 120 Gbps) ports with Power Delivery and DisplayPort

Supports DisplayPort 2.1, Thunderbolt 5 and also enables you to connect to an external display using a display adapter. Provides data transfer rates of up to 120 Gbps with Bandwidth Boost.

NOTE: The power adapter is to be connected to one of these Thunderbolt 5 ports.

NOTE: You can connect a Dell Docking Station to the Thunderbolt 5 ports. For more information, search in the Knowledge Base Resource at [Dell Support Site](#).

NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.

NOTE: Thunderbolt 5 is compatible with USB4, USB 3.2, USB 2.0, Thunderbolt 4, and Thunderbolt 3.

NOTE: Thunderbolt 5 supports up to three 4K displays or two 8K displays.

Top



Figure 3. Top view

1. Microphones (2)

Provide digital sound input for audio recording, voice calls, and so on.

2. Capacitive touch function row

Displays media and display control keys or standard function keys, with the **esc** and **delete** keys.

Press and hold the **fn** key on the physical keyboard to switch to the next set of keys.

Press the **fn** key on the physical keyboard and the **esc** key on the capacitive touch function row to switch to the next set of keys and lock the mode of the panel.

3. Power button with fingerprint reader

Press to turn on the computer if it is turned off, in sleep state, or in a hibernating state. Place your finger on the power button steadily to log in.

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 s to force shut-down the computer.

4. **Speakers (2)**

Provides audio output.

5. **Haptic touchpad**

Move your finger on the touchpad to control the cursor. For more information about the active areas of the touchpad, see the section on [Active areas of the touchpad controls](#).

Active areas of the touchpad



Figure 4. Active areas of the touchpad

1. **Left-click area of the touchpad**

Move your finger on the touchpad within this area to control the cursor. Tap this area to left-click.

2. **Right-click area of the touchpad**

Move your finger on the touchpad within this area to control the cursor. Tap this area to right-click.

Front



Figure 5. Front view

1. Infrared emitter

The Infrared emitter emits infrared light, which enables the infrared camera to sense and track motion.

2. Infrared camera

The Infrared camera uses facial recognition and enhances security when paired with Windows Hello face authentication.

3. RGB and infrared camera

The RGB and infrared camera enables you to video chat, capture photos, and record videos.

4. Camera-status light

The camera-status light turns on when the camera is in use.

5. Ambient-light sensor

The sensor detects the ambient light and automatically adjusts the display and capacitive touch function row brightness.

6. Infrared emitter

The Infrared emitter emits infrared light, which enables the infrared camera to sense and track motion.

Bottom

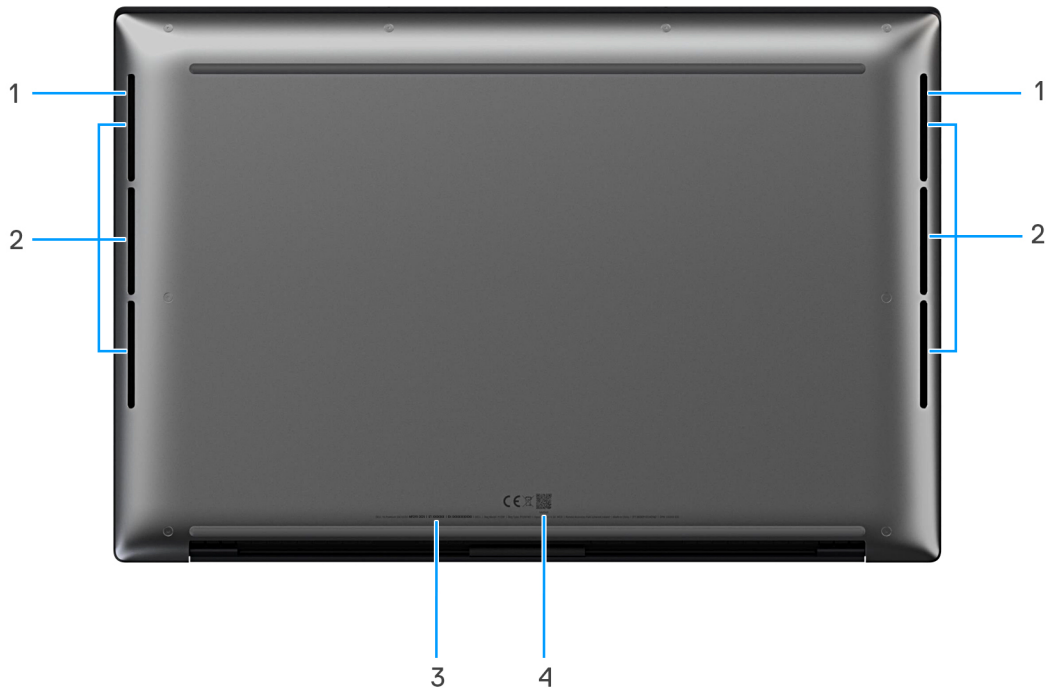


Figure 6. Bottom view

1. Speakers (2)

Provide audio output.

2. Air vents (6)

Air vents provide ventilation for your computer. Clogged air vents can cause overheating and can affect the performance of your computer and potentially cause hardware issues. Keep the air vents clear of obstructions and clean them regularly to prevent the build-up of dust and dirt. For more information about cleaning air vents, search for articles in the Knowledge Base Resource at the [Dell Support Site](#).

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. MyDell QR code

MyDell is your hub for content that is personalized to your Dell 16 Premium DA16250, including videos, articles, manuals, and easy access to support.

Locate the Service Tag or Express Service

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. The Express Service Code is a numeric version of the Service Tag.

For more information about how to find the Service Tag of your computer, search in the Knowledge Base Resource at the [Dell Support Site](#).

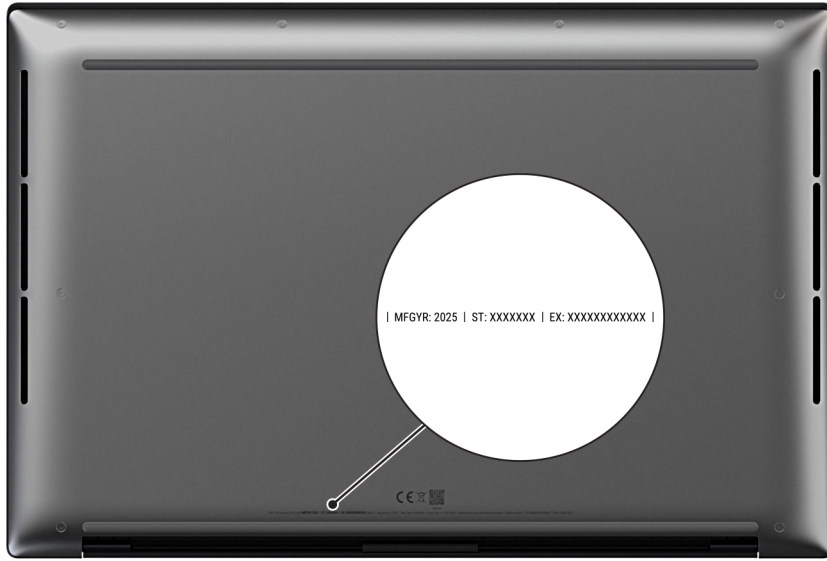


Figure 7. Service Tag/Express Service Code location

Set up your Dell 16 Premium DA16250

About this task

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

Steps

1. Connect the power adapter and press the power button.



Figure 8. Connect the power adapter and press the power button.

NOTE: The battery may go into power-saving mode during shipment to conserve charge on the battery. Ensure that the power adapter is connected to your computer when it is turned on for the first time.

2. Finish the operating system setup.

Follow the on-screen instructions to complete the setup. When setting up, it is recommended that you:

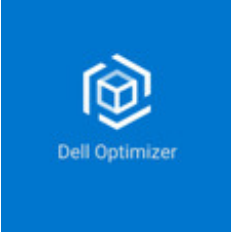




- Connect to a network for Windows updates.

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 an existing Microsoft account or create a new account. If not connected to the Internet, create an offline account.
- On the **Support and Protection** screen, enter your contact details.

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

Table 1. Locate Dell apps


Resources	Description
	<p>Dell Optimizer is an application that is 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.</p> <p>For more information, see Dell Optimizer User's Guide at Dell Support Site.</p>
	<p>Dell Product Registration</p> <p>Register your computer with Dell.</p>
	<p>Dell Help & Support</p> <p>Access help and support for your computer.</p>
	<p>SupportAssist</p> <p>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.</p> <p>For more information, see SupportAssist for Home PCs User's Guide at Dell Support Site.</p> <p> NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.</p>

Specifications of Dell 16 Premium DA16250

Dimensions and weight

The following table lists the height, width, depth, and weight of your Dell 16 Premium DA16250.



Table 2. Dimensions and weight

Description	Values
Height:	
Front height	6.64 mm (0.26 in.)
Rear height	18.70 mm (0.74 in.)
Width	358.18 mm (14.10 in.)
Depth	240.05 mm (9.45 in.)
Weight  NOTE: The weight of your computer depends on the configuration that is ordered.	For computers shipped with 2K FHD+ display: <ul style="list-style-type: none"> • Minimum: 2.07 kg (4.56 lb) • Maximum: 2.29 kg (5.06 lb) For computers shipped with OLED display: <ul style="list-style-type: none"> • Minimum: 2.11 (4.65 lb) • Maximum: 2.33 kg (5.13 lb)

Processor

The following tables list the details of the processors that are supported in your Dell 16 Premium DA16250.

Table 3. Processor

Description		Option 1	Option 2	Option 3
Processor type		Intel Core Ultra 7 255H	Intel Core Ultra 7 265H	Intel Core Ultra 9 285H
Processor wattage		<ul style="list-style-type: none"> • 28 W base power consumption • 115 W at maximum turbo frequency 	<ul style="list-style-type: none"> • 28 W base power consumption • 115 W at maximum turbo frequency 	<ul style="list-style-type: none"> • 45 W base power consumption • 115 W at maximum turbo frequency
Processor total core count		16	16	16
Performance-cores		6	6	6
Efficient-cores		<ul style="list-style-type: none"> • 8 efficient cores • 2 low-power efficient cores 	<ul style="list-style-type: none"> • 8 efficient cores • 2 low-power efficient cores 	<ul style="list-style-type: none"> • 8 efficient cores • 2 low-power efficient cores
Processor total thread count		16	16	16
 NOTE: Intel Hyper-Threading Technology is available only on Performance-cores.				
Processor speed		Up to 5.10 GHz	Up to 5.30 GHz	Up to 5.40 GHz
Frequency—Performance cores				
	Processor base frequency	2.00 GHz	2.20 GHz	2.90 GHz
	Maximum turbo frequency	5.10 GHz	5.30 GHz	5.40 GHz
Frequency—Efficient cores				
	Processor base frequency	<ul style="list-style-type: none"> • 1.50 GHz for efficient cores • 0.70 GHz for low-power efficient cores 	<ul style="list-style-type: none"> • 1.70 GHz for efficient cores • 0.70 GHz for low-power efficient cores 	<ul style="list-style-type: none"> • 2.70 GHz for efficient cores • 1.00 GHz for low-power efficient cores
	Maximum turbo frequency	<ul style="list-style-type: none"> • 4.40 GHz for efficient cores • 2.50 GHz for low-power efficient cores 	<ul style="list-style-type: none"> • 4.50 GHz for efficient cores • 2.50 GHz for low-power efficient cores 	<ul style="list-style-type: none"> • 4.50 GHz for efficient cores • 2.50 GHz for low-power efficient cores
Processor cache		24 MB	24 MB	24 MB
Integrated graphics		Intel Arc 140T Graphics	Intel Arc 140T Graphics	Intel Arc 140T Graphics
AI technology		Intel AI Boost	Intel AI Boost	Intel AI Boost
Neural Processing Unit (NPU) performance		Two NPUs, supporting up to 13 TOPS	Two NPUs, supporting up to 13 TOPS	Two NPUs, supporting 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 16 Premium DA16250.

Table 4. Chipset

Description	Values
Chipset	Integrated in the processor
Processor	<ul style="list-style-type: none">• Intel Core Ultra 7 255H• Intel Core Ultra 7 265H• Intel Core Ultra 9 285H
DRAM bus width	64-bit x 2
Flash EPROM	16 MB
PCIe bus	Up to PCIe 5.0

Operating system

Your Dell 16 Premium DA16250 supports the following operating systems:

- Windows 11 Pro
- Windows 11 Home

Memory

The following table lists the memory specifications that are supported by your Dell 16 Premium DA16250.

Table 5. Memory specifications


Description	Values
Memory slots	Dual-channel on-board memory  NOTE: The memory is integrated on the system board and is not upgradeable.
Memory type	LPDDR5X
Memory speed	<ul style="list-style-type: none">• 7467 MT/s: For computers shipped with integrated graphics card, NVIDIA GeForce RTX 5050 graphics card, or NVIDIA GeForce RTX 5060 graphics card• 8400 MT/s: For computers shipped with NVIDIA GeForce RTX 5070 graphics card
Maximum memory configuration	64 GB
Minimum memory configuration	16 GB
Memory size per slot	16 GB, 32 GB, 64 GB
Memory configurations supported	For computers shipped with integrated graphics card: <ul style="list-style-type: none">• 16 GB LPDDR5X at 7467 MT/s• 32 GB LPDDR5X at 7467 MT/s• 64 GB LPDDR5X at 7467 MT/s

Table 5. Memory specifications (continued)

Description	Values
	<p>For computers shipped with NVIDIA GeForce RTX 5050 graphics card or NVIDIA GeForce RTX 5060 graphics card:</p> <ul style="list-style-type: none"> ● 16 GB LPDDR5X at 7467 MT/s ● 32 GB LPDDR5X at 7467 MT/s <p>For computers shipped with NVIDIA GeForce RTX 5070 graphics card:</p> <ul style="list-style-type: none"> ● 32 GB LPDDR5X at 8400 MT/s ● 64 GB LPDDR5X at 8400 MT/s


External ports and slots

The following table lists the external ports and slots on your Dell 16 Premium DA16250.

Table 6. External ports and slots

Description	Values
USB ports	<ul style="list-style-type: none"> ● Three Thunderbolt 4 USB Type-C ports with Power Delivery and DisplayPort (for computers shipped with integrated graphics card, NVIDIA GeForce RTX 5050 graphics card, or NVIDIA GeForce RTX 5060 graphics card) ● Three Thunderbolt 5 USB Type-C ports with Power Delivery and DisplayPort (for computers shipped with NVIDIA GeForce RTX 5070 graphics card) <p>i NOTE: Connect the USB Type-C power adapter to only one of the three USB Type-C ports.</p> <p>i NOTE: You can connect a Dell Docking Station to this port. For more information, search in the Knowledge Base Resource at Dell Support Site.</p>
Audio port	<ul style="list-style-type: none"> ● One headset (headphone and microphone combo) port ● Three Thunderbolt 4 USB Type-C ports with Power Delivery and DisplayPort (for computers shipped with integrated graphics card, NVIDIA GeForce RTX 5050 graphics card, or NVIDIA GeForce RTX 5060 graphics card) ● Three Thunderbolt 5 USB Type-C ports with Power Delivery and DisplayPort (for computers shipped with NVIDIA GeForce RTX 5070 graphics card)
Video port(s)	<ul style="list-style-type: none"> ● One headset (headphone and microphone combo) port ● Three Thunderbolt 4 USB Type-C ports with Power Delivery and DisplayPort (for computers shipped with integrated graphics card, NVIDIA GeForce RTX 5050 graphics card, or NVIDIA GeForce RTX 5060 graphics card) ● Three Thunderbolt 5 USB Type-C ports with Power Delivery and DisplayPort (for computers shipped with NVIDIA GeForce RTX 5070 graphics card) <p>i NOTE: A USB-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.</p>
Media-card reader	One microSDXC card reader v7.1 UHS-I/UHS-II
Power-adapter port	DC-IN through any of the three USB Type-C ports.


Table 6. External ports and slots (continued)

Description	Values
	 NOTE: You can connect a Dell Docking Station to this port. For more information, see the knowledge base article 000124295 at Dell Support Site .
Security-cable slot	Not supported

Internal slots

The following table lists the internal slots of your Dell 16 Premium DA16250.

Table 7. Internal slots

Description	Values
M.2	One M.2 slot for M.2 2230 or M.2 2280 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 .

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module that is supported on your Dell 16 Premium DA16250.

Table 8. Wireless module specifications

Description	Values
Model number	Intel Killer Wi-Fi 7 (BE201)
Transfer rate	Up to 5800 Mbps
Frequency bands supported	2.4 GHz/5 GHz/6 GHz
Wireless standards	<ul style="list-style-type: none"> ● 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 7 (Wi-Fi 802.11be)
Encryption	<ul style="list-style-type: none"> ● WEP ● WPA ● WPA2 ● WPA3
Bluetooth wireless card	Bluetooth 5.4

Audio

The following table lists the audio specifications of your Dell 16 Premium DA16250.

Table 9. Audio specifications

Description	Values
Audio controller	CirrusLogic CS42L43
Stereo conversion	Supported with Waves MaxxAudio Pro and Waves Nx 3D audio
Internal audio interface	SoundWire interface
External audio interface	One headset (headphone and microphone combo) port
Number of speakers	<ul style="list-style-type: none">• 2 x Woofers• 2 x Tweeters
Internal-speaker amplifier	Not supported
External volume controls	Keyboard shortcut controls
Speaker output:	
Average	<ul style="list-style-type: none">• Woofer: 2 x 3 W• Tweeters: 2 x 2 W
Peak	<ul style="list-style-type: none">• Woofer: 2 x 3.5 W• Tweeters: 2 x 2.5 W
Microphone	Dual digital-array microphones; IntelliGo noise reduction

Storage

This section lists the storage options on your Dell 16 Premium DA16250.

Your Dell 16 Premium DA16250 supports one M.2 2230 or M.2 2280 solid-state drive.

Table 10. Storage specifications

Storage type	Interface type	Capacity
M.2 2230 solid-state drive	PCIe Gen4 NVMe	Up to 1 TB
M.2 2280 solid-state drive	PCIe Gen4 NVMe	Up to 4 TB

Media-card reader

The following table provides the specification of media cards that are supported by your Dell 16 Premium DA16250.

Table 11. Media-card reader specifications

Description	Values
Media-card slot type	One microSDXC card reader v7.1 UHS-I/UHS-II
Media-cards supported	<ul style="list-style-type: none">• microSecure Digital (mSD)

Table 11. Media-card reader specifications (continued)

Description	Values
	<ul style="list-style-type: none"> microSecure Digital High Capacity (mSDHC) microSecure Digital Extended Capacity (mSDXC)
<p>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.</p>	

Keyboard

The following table lists the keyboard specifications of your Dell 16 Premium DA16250.

Table 12. Keyboard specifications

Description	Values
Keyboard type	Backlit keyboard
Keyboard layout	QWERTY
Number of keys	<ul style="list-style-type: none"> Arabic, Canada (Bilingual), English International, English US, Hebrew, Korean: 64 keys Belgian, Czech/Slovakian, English UK, French (European), German, Italian, Nordic, Portuguese Iberian, Spanish (Castillian), Spanish (Latin America), Swiss European, Turkish: 65 keys Japanese: 68 keys
Key pitch	<p>X= 19.05 mm key pitch</p> <p>Y=18.05 mm key pitch</p>
Keyboard shortcuts	<p>Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. To type the alternate character, press Shift and the desired key. To perform secondary functions, press Fn and the desired key.</p> <p>NOTE: You can define the primary behavior of the function keys (F1–F12) changing Function Key Behavior in the BIOS setup program.</p> <p>NOTE: If Copilot in Windows is not available on your computer, pressing the Copilot key launches Windows search. For more information about Copilot in Windows, search in the Knowledge Base Resource at the Dell Support site.</p>

Keyboard shortcuts of Dell 16 Premium DA16250

NOTE: Keyboard characters may differ depending on the keyboard language configuration. Keys that are used for shortcuts remain the same across all language configurations.

Standard shortcut keys

Some keys on your keyboard have two symbols on them. These keys can be used to type alternative characters or to perform secondary functions. The symbol that is shown on the lower part of the key refers to the character that is typed out when the










key is pressed. If you press **shift** and the key, the symbol that is shown on the upper part of the key is typed out. For example, if you press **2**, **2** is typed out; if you press **Shift + 2**, **@** is typed out.

Keys on the capacitive touch function row

The top row of the keyboard is a capacitive touch panel. Pressing the **fn** key toggles between the standard function keys (**F1-F12**) and keys for media control.



i **NOTE:** Pressing the **fn** and **esc** keys together locks the mode of the capacitive touch function row (indicated by a lock symbol next to the **esc** key). When the computer restarts, the default mode of the capacitive touch function row is what was set before the computer was restarted.

Table 13. Media keys available on the capacitive touch function row

Media keys	Description
	Escape key i NOTE: A lock symbol appears when the mode of the capacitive touch panel is locked.
	Mute or unmute audio
	Decrease volume
	Increase volume
	Mute or unmute microphone i NOTE: A light appears next to the microphone mute icon when the microphone is muted.
	Play or pause media
	Adjust keyboard backlight brightness
	Decrease brightness of display
	Increase brightness of display

Other keyboard shortcuts

Table 14. Dedicated keys to launch specific features

Keys	Description
	Launch the Windows Start menu
	Launch Copilot in Windows. i NOTE: If Copilot in Windows is not available on your computer, the Copilot key launches Windows Search. For more information about Copilot in Windows, search in the Knowledge Base Resource at Dell Support Site . i NOTE: Pressing Copilot + fn displays the contextual menu.

The **fn** key is also used with selected keys on the keyboard to invoke other secondary functions.

Table 15. List of keyboard shortcuts invoked with fn key

Keyboard shortcut	Description
fn + B	Pause
fn + S	Scroll lock
fn + R	System request
fn + ctrl + B	Break
fn + left arrow	Home
fn + right arrow	End

Camera

The following table lists the camera specifications of your Dell 16 Premium DA16250.

Table 16. Camera specifications

Description	Values
Number of cameras	Two
Camera type	FHD RGB-IR camera
Camera location	Front
Camera sensor type	CMOS sensor technology
Camera resolution:	
Still image	2.07 megapixels
Video	1920 x 1080 at 30 fps
Infrared camera resolution:	
Still image	0.23 megapixels
Video	640 x 360 at 15 fps
Diagonal viewing angle:	
Camera	81.3 degrees
Infrared camera	78.1 degrees

Touchpad

The following table lists the touchpad specifications of your Dell 16 Premium DA16250.

Table 17. Touchpad specifications

Description	Values
Touchpad resolution:	> 300 DPI
Touchpad dimensions:	
Horizontal	148 mm (5.83 in.)


Table 17. Touchpad specifications (continued)

Description		Values
	Vertical	90 mm (3.54 in.)
Touchpad gestures		For more information about the touchpad gestures available on Windows, see the Microsoft Knowledge Base article at Microsoft Support Site .


Power adapter

The following table lists the power adapter specifications of your Dell 16 Premium DA16250.

Table 18. Power-adapter specifications

Description		Values
Type		130 W AC small form factor, USB Type-C, E5
Power-adapter dimensions:		
	Height	22 mm (0.86 in.)
	Width	55 mm (2.16 in.)
	Depth	66 mm (2.59 in.)
Input voltage		100 VAC to 240 VAC
Input frequency		50 Hz to 60 Hz
Input current (maximum)		1.80 A
Output current (continuous)		<ul style="list-style-type: none"> • 20 V/3 A (continuous) • 15 V/3 A (continuous) • 9 V/3 A (continuous) • 5 V/3 A (continuous)
Rated output voltage		<ul style="list-style-type: none"> • 20 VDC • 15 VDC • 9 VDC • 5 VDC
Temperature range:		
	Operating	0°C to 40°C (32°F to 104°F)
	Storage	-20°C to 70°C (-4°F to 158°F)
 CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.		

Power adapter requirements of Dell 16 Premium DA16250

 **NOTE:** If you did not purchase the Dell-branded power adapter that is recommended for your computer, ensure that the power adapter you use meets the following requirements.

The following table lists the power adapter requirements for your Dell 16 Premium DA16250.

Table 19. Power adapter requirements

Description	Value
Power that is required from a power adapter to achieve optimal performance	130 W
Power that charges the computer at a slower speed i NOTE: A warning message may appear informing you about the use of a lower-powered adapter and slower charging speed.	Less than 130 W
Minimum power that is required from a power adapter to operate the computer and charge the battery i NOTE: A warning message appears informing you about the use of a lower-powered adapter and slower charging speed.	45 W
USB Power Delivery (PD) fast charging	Supported
ExpressCharge mode	Supported i NOTE: Ensure that the computer is connected to a 130 W power adapter for this feature to be supported.

Battery

The following table lists the battery specifications of your Dell 16 Premium DA16250.

Table 20. Battery specifications

Description	Values
Battery type	6-cell, 99.5 Wh lithium-ion, ExpressCharge
Battery voltage	11.70 VDC
Battery weight (maximum)	0.38 kg (0.84 lb)
Battery dimensions:	
Height	7.26 mm (0.29 in.)
Width	289.00 mm (11.40 in.)
Depth	84.40 mm (3.32 in.)
Temperature range:	
Operating	<ul style="list-style-type: none"> Charge: 0°C to 45°C (32°F to 113°F) Discharge: 0°C to 70°C (32°F to 158°F)
Storage	-20°C to 65°C (-4°F to 149°F)
Battery operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.
Battery charging time (approximate) i NOTE: You can control the charging time, duration, start and end time, and so on, using the Dell Power Manager application. For more information about Dell Power Manager, search in the Knowledge Base Resource at Dell Support Site .	<ul style="list-style-type: none"> ExpressCharge (supported by 60 W or 100 W power adapters): Charge from 0% to 80% within 1 hour, 0% to 100% within 2 hours ExpressCharge Boost (supported by 100 W power adapters only): Charge from 0% to 35% in 20 minutes, 0% to 80% within 1 hour, 0% to 100% within 2 hours

Table 20. Battery specifications (continued)

Description	Values
Coin-cell battery	Not supported
<p>⚠ 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.</p> <p>⚠ CAUTION: Dell Technologies recommends that you charge the battery regularly for optimal power consumption.</p>	

Power requirements (for computers shipped with 6-cell, 99.5 Wh battery)

i **NOTE:** The information in this section is applicable to the European Union (EU) countries.

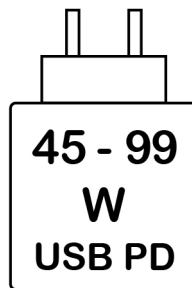


Figure 9. Pictogram for 99.5 Wh battery

The power that is delivered by the charger must be between a minimum of 45 Watts that is required by the radio equipment, and a maximum of 99 Watts in order to achieve the maximum charging speed.

This computer supports USB Power Delivery (PD) fast charging.

Display

The following table lists the display specifications of your Dell 16 Premium DA16250.

Table 21. Display specifications

Description	Option 1	Option 2
Display type	16.3-inch, 2K, Low Blue Light	16.3-inch, Organic Light Emitting Diode (OLED), Low Blue Light
Touch options	No	Yes
Display-panel technology	Wide Viewing Angle (WVA)	Organic Light Emitting Diode (OLED)
Display-panel dimensions (active area):		
Height	219.17 mm (8.63 in.)	219.17 mm (8.63 in.)
Width	350.67 mm (13.81 in.)	350.67 mm (13.81 in.)
Diagonal	413.51 mm (16.28 in.)	413.51 mm (16.28 in.)
Display-panel native resolution	1920 x 1200	3840 x 2400

Table 21. Display specifications (continued)

Description	Option 1	Option 2
Luminance (typical)	500 nits	400 nits
Megapixels	2.07	9.20
Color gamut	100% sRGB	100% DCI-P3
Pixels Per Inch (PPI)	139	278.10
Contrast ratio (typical)	2000:1	1000000:1
Response time (maximum)	35 ms	2 ms
Refresh rate	30 Hz to 120 Hz (VRR)	48 Hz to 120 Hz (VRR)
Horizontal view angle	+/- 88 degrees	+/- 89 degrees
Vertical view angle	+/- 88 degrees	+/- 89 degrees
Pixel pitch	0.18	0.09
Power consumption (maximum)	4.21 W	11.71 W
Anti-glare vs glossy finish	Anti-glare	Anti-reflective, Anti-smudge

Fingerprint reader

The following table lists the fingerprint-reader specifications of your Dell 16 Premium DA16250.


 **NOTE:** The fingerprint reader is on the power button.

Table 22. Fingerprint reader specifications

Description	Values
Sensor technology	Capacitive
Sensor resolution	500 dpi
Sensor pixel size	108 x 88

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Dell 16 Premium DA16250.

Table 23. GPU—Integrated

Controller	Memory size	Processor
Intel Arc 140T Graphics	Shared system memory	<ul style="list-style-type: none"> Intel Core Ultra 7 255H Intel Core Ultra 7 265H Intel Core Ultra 9 285H

GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Dell 16 Premium DA16250.

Table 24. GPU—Discrete

Controller	Memory size	Memory type
NVIDIA GeForce RTX 5050	8 GB	GDDR7
NVIDIA GeForce RTX 5060	8 GB	GDDR7
NVIDIA GeForce RTX 5070	8 GB	GDDR7

External display support

The following table lists the external display support for your Dell 16 Premium DA16250.

Table 25. External display support

Graphics card	Supported external displays with laptop display enabled	Supported external displays with laptop display disabled
Intel Arc 140T Graphics	3	4
NVIDIA GeForce RTX 5050	3	3
NVIDIA GeForce RTX 5060	3	3
NVIDIA GeForce RTX 5070	3	3

Operating and storage environment

This table lists the operating and storage specifications of your Dell 16 Premium DA16250.

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

Table 26. 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	-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.


* 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](#).

Dell low blue light display

 **WARNING: Prolonged exposure to blue light from the display may lead to long-term effects such as eye strain, eye fatigue, or damage to the eyes.**

Blue light is a color in the light spectrum which has a short wavelength and high energy. Chronic exposure to blue light, particularly from digital sources may disrupt sleep patterns and cause long-term effects such as eye strain, eye fatigue, or damage to the eyes.

The display on this computer is designed to minimize blue light and complies with TÜV Rheinland's requirement for low blue light displays.

Low blue light mode is enabled at the factory, so no further configuration is necessary.

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


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

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 27. Self-help resources

Self-help resources	Resource location
Information about Dell products and services	Dell Site
Tips	
Contact Support	In Windows search, type <code>Contact Support</code> , and press Enter.
Online help for operating system	Windows Support Site
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 Dell Support Site . For more information about how to find the Service Tag for your computer, see Instructions on how to find your Service Tag or Serial Number .
Dell knowledge base articles	<ol style="list-style-type: none"> 1. Go to Dell Support Site. 2. On the menu bar at the top of the Support page, select Support > Support Library. 3. In the Search field on the Support Library 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 [Contact Support at Dell Support Site](#).

 **NOTE:** Availability of the services may vary depending on the country or region, and product.

 **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.