# Dell Pro 16

PC16255

Owner's Manual

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DELL Technologies

## 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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# 1

# Views of Dell Pro 16 PC16255

## Right

**Figure 1. Right View**

1. **USB 3.2 Gen 1 port**

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

2. **USB 3.2 Gen 1 port with PowerShare**

   Connect devices such as external storage devices and printers.

   Supports data transfer speeds up to 5 Gbps. PowerShare enables you to charge your USB devices even when your computer is turned off.

   **NOTE:** If your computer is turned off or in a hibernate state, you must connect the power adapter to charge your devices using the PowerShare port. You must enable this feature in the BIOS setup program.

   **NOTE:** Certain USB devices may not charge when the computer is turned off or in a sleep state. In such cases, turn on the computer to charge the device.

3. **RJ45 ethernet port (1 Gbps)**

   Connect an RJ45 ethernet cable from a router or a broadband modem for network or Internet access, with a transfer rate of 10/100/1000 Mbps (maximum 1 Gbps).

4. **Ethernet status LED**

   Indicates the connectivity status and network activity.

5. **Security-cable slot**

   Attach a security cable to prevent unauthorized movement of your computer.

## Left

**Figure 2. Left view**

1. **Power-adapter port**

Connect a power adapter to provide power to your computer.

2. **Battery-status light**

   Indicates the battery-charge status.

   Solid white—Battery is charging.

   Solid amber—Battery charge is low.

   Off—Battery is fully charged.

3. **HDMI 2.1 Transition-minimized differential signaling (TMDS) port**

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

4. **USB 40 Gbps port with Power Delivery and DisplayPort**

   Connect devices, such as external storage devices and printers. Supports USB and DisplayPort which enables you to connect to an external display using a display adapter. Supports data transfer rates of up to 40 Gbps.

   - For computers shipped with AMD Ryzen AI 300 Series processors: Supports DisplayPort 2.1
   - For computers shipped with AMD Ryzen 200 Series processors: Supports DisplayPort 1.4a

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

   **NOTE:** A 40 Gbps-certified cable is required to achieve the maximum performance of 40 Gbps.

   **NOTE:** The USB port is backward compatible with USB 3.2, USB 2.0.

5. **Global headset port**

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

# Top

**Figure 3. Top view**

1. **Power button with optional fingerprint reader**

   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 a sleep state; press and hold the power button for 10 seconds to force shut-down the computer.

   If the power button has a fingerprint reader, place your finger on the power button steadily to log in.

   **NOTE:** The power-status light on the power button is available only on computers without the fingerprint reader. Computers that are shipped with the fingerprint reader that is integrated on the power button will not have the power-status light on the power button.

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

2. **Touchpad**

   Move your finger on the touchpad to move the mouse pointer. Tap to left-click and two fingers tap to right-click.

# Front

**Figure 4. Front view**

1. **Microphones (2)**

   Provides digital sound input for audio recording and voice calls.

2. **Infrared camera (optional)**

   Enhances security when paired with Windows Hello face authentication.

3. **Infrared emitter (optional)**

   Emits infrared light, which enables the infrared camera to sense and track motion.

4. **Privacy shutter**

Slide the privacy shutter to cover the camera lens and protect your privacy when the camera is not in use.

5. **Camera**

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

6. **Camera-status light**

   Turns on when the camera is in use.

# Bottom

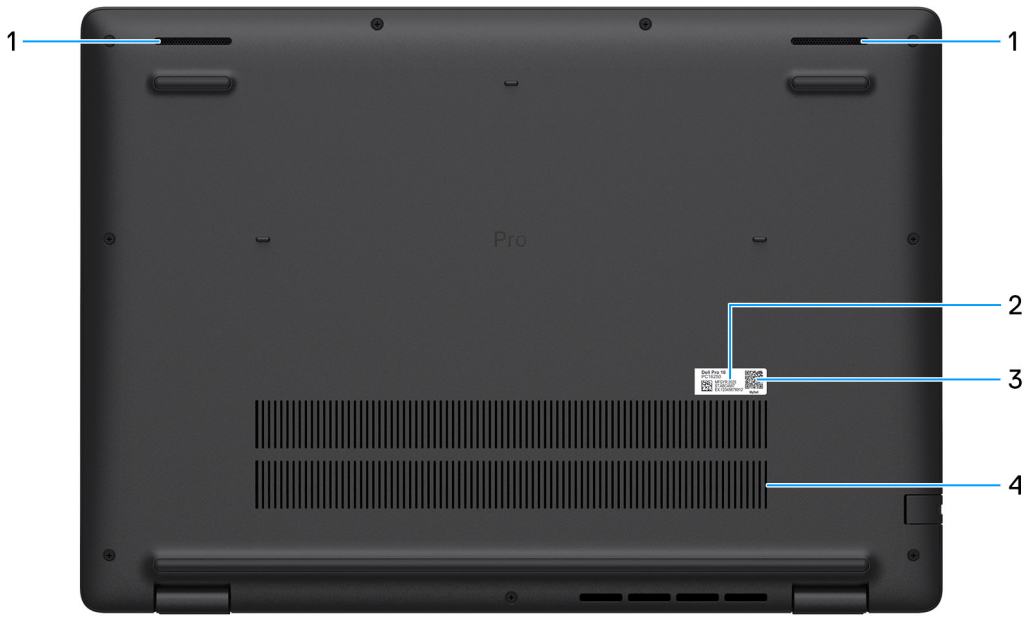



**Figure 5. Bottom view**

1. **Speakers**

   Provide audio output.

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

3. **MyDell QR code**

   MyDell is your hub for content that is personalized to your Dell Pro 16 PC16255, including videos, articles, manuals, and easy access to support.

4. **Air vents**

   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 Dell Support Site.

# Locate the Service Tag or Express Service Code label of your computer

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.

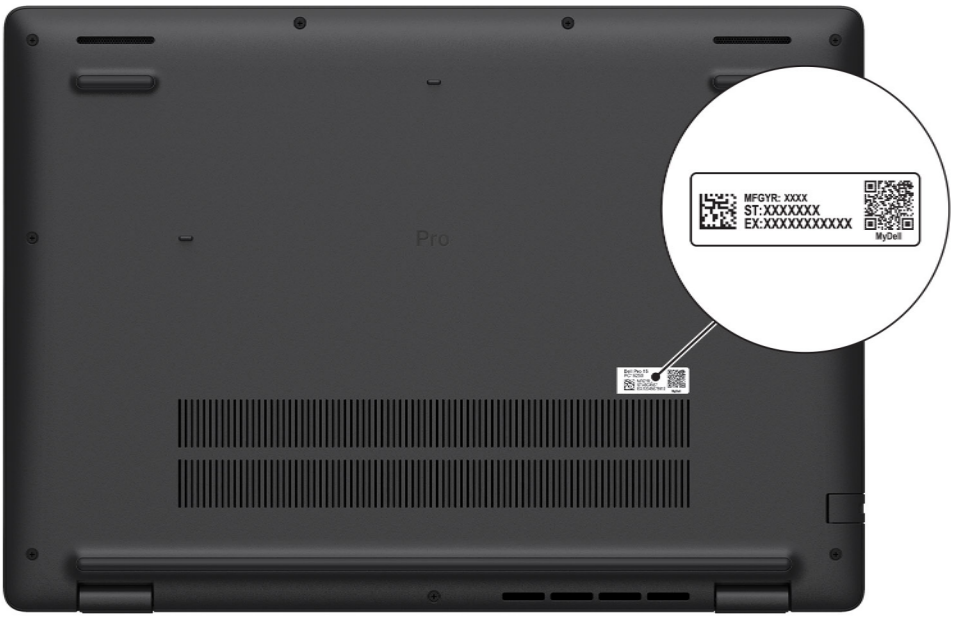



**Figure 6. Service Tag/Express Service Code location**

# Battery-charge status light

The following table lists the battery-charge and status light behavior of your Dell Pro 16 PC16255.

**Table 1. Battery charge and status light behavior**

| Power source | LED behavior | System power state | Battery charge level |
|---|---|---|---|
| AC adapter | Off | S0 or S5 | Fully charged |
| AC adapter | Solid white | S0 or S5 | < Fully charged |
| Battery | Off | S0 or S5 | 11-100% |
| Battery | Solid amber (590+/-3 nm) | S0 or S5 | < 10% |

- S0 (ON): The computer is turned on.
- S4 (Hibernate): The computer consumes the least power in the Hibernated state than in the ON or OFF state. The computer is almost in the OFF state. The context data is written to a storage device, allowing you to resume from where you left when the computer is turned on.
- S5 (OFF): The computer is in a shutdown state.

**Table 2. Ethernet (RJ45) status LED**

| LED Behavior | Connection status |
|---|---|
| Solid Amber | The RJ45 cable is connected properly from the router or switch to the computer. The connection is active. |

**Table 2. Ethernet (RJ45) status LED (continued)**

| LED Behavior | Connection status |
|---|---|
| Blinking Amber | Data transfer is in progress. |

# 2

# Set up your Dell Pro 16 PC16255

### 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 7. 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.

   **For Windows:**

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

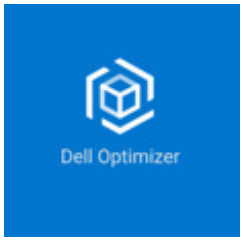
   - Connect to a network for Windows updates.

     **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 or create a Microsoft account.

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

### Table 3. 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.<br>For more information, see Dell Optimizer User's Guide at Dell Support Site. |
| | **Dell Product Registration**<br>Register your computer with Dell. |
| | **Dell Help & Support**<br>Access help and support for your computer. |
| | **SupportAssist**<br>SupportAssist keeps your computer running at its best by optimizing settings, detecting issue, and removing viruses. It also notifies when updates are available for your computer. SupportAssist proactively checks the health of your computer hardware and software. When an issue is detected, the necessary system state information is sent to Dell to begin troubleshooting. SupportAssist is preinstalled on most of the Dell devices running the Windows operating system. For more information, see Support Assist documentation at Dell Support Site.<br>**NOTE:** In SupportAssist, click the warranty expiry date to renew or upgrade your warranty. |

# 3

# Specifications of Dell Pro 16 PC16255

## Dimensions and weight

The following table lists the height, width, depth, and weight of your Dell Pro 16 PC16255.

### Table 4. Dimensions and weight

| Description | Values |
|---|---|
| Height: | |
| Front height | 18.89 mm (0.74 in.) |
| Rear height | 20.85 mm (0.82 in.) |
| Width | 358.00mm (14.09 in.) |
| Depth | 251.82 mm (9.91 in.) |
| Weight<br>**NOTE:** The weight of your computer depends on the configuration that you ordered. | Minimum - 1.94 kg (4.27 lb) |

## Processor

The following table lists the details of the processors that are supported in your Dell Pro 16 PC16255.

### Table 5. Processor (For computers shipped with AMD Ryzen AI 300 series)

| Description | Option one | Option two | Option three |
|---|---|---|---|
| Processor type | AMD Ryzen AI 5 PRO 340 | AMD Ryzen AI 7 350 | AMD Ryzen AI 7 PRO 350 |
| Configurable Thermal Design Power (cTDP) | 15 W–54 W | 15 W–54 W | 15 W–54 W |
| Thermal Mode/Thermal Design Power (TDP) | | | |
| Optimized | 15 W | 15 W | 15 W |
| Performance | 18 W | 18 W | 18 W |
| Processor core count | 6 | 8 | 8 |
| Processor thread count | 12 | 16 | 16 |
| Processor speed | Up to 4.8 GHz | Up to 5.0 GHz | Up to 5.0 GHz |
| Processor cache L2 | 6 MB | 8 MB | 8 MB |
| Processor cache L3 | 16 MB | 16 MB | 16 MB |
| Integrated graphics | AMD Radeon 840M Graphics | AMD Radeon 860M Graphics | AMD Radeon 860M Graphics |
| Neural Processing Units (NPU) Performance | Up to 50 TOPS | Up to 50 TOPS | Up to 50 TOPS |

### Table 6. Processor (For computers shipped with AMD Ryzen 200 series)

| Description | Option one | Option two | Option three | Option four | Option five | Option six |
|---|---|---|---|---|---|---|
| Processor type | AMD Ryzen 3 210 | AMD Ryzen 3 PRO 210 | AMD Ryzen 5 220 | AMD Ryzen 5 PRO 215 | AMD Ryzen 5 PRO 220 | AMD Ryzen 5 PRO 230 |
| Configurable Thermal Design Power (cTDP) | 15 W–30 W | 15 W–30 W | 15 W–30 W | 15 W–30 W | 15 W–30 W | 15 W–30 W |
| Thermal Mode/Thermal Design Power (TDP) | | | | | | |
| Optimized | 15 W | 15 W | 15 W | 15 W | 15 W | 15 W |
| Performance | 18 W | 18 W | 18 W | 18 W | 18 W | 18 W |
| Processor core count | 4 | 4 | 6 | 6 | 6 | 6 |
| Processor thread count | 8 | 8 | 12 | 12 | 12 | 12 |
| Processor speed | Up to 4.7 GHz | Up to 4.7 GHz | Up to 4.9 GHz | Up to 4.7 GHz | Up to 4.9 GHz | Up to 4.9 GHz |
| Processor cache L2 | 4 MB | 4 MB | 6 MB | 6 MB | 6 MB | 6 MB |
| Processor cache L3 | 8 MB | 8 MB | 16 MB | 16 MB | 16 MB | 16 MB |
| Integrated graphics | AMD Radeon 740M Graphics | AMD Radeon 740M Graphics | AMD Radeon 740M Graphics | AMD Radeon 740M Graphics | AMD Radeon 740M Graphics | AMD Radeon 760M Graphics |
| Neural Processing Units (NPU) Performance | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Up to 16 TOPS |

# Chipset

The following table lists the details of the chipset that is supported by your Dell Pro 16 PC16255.

### Table 7. Chipset

| Description | Values |
|---|---|
| Chipset | Integrated in the processor |
| Processor | • AMD Ryzen AI 7 PRO 350<br>• AMD Ryzen AI 7 350<br>• AMD Ryzen AI 5 PRO 340<br>• AMD Ryzen 5 PRO 230<br>• AMD Ryzen 5 PRO 220<br>• AMD Ryzen 5 PRO 215<br>• AMD Ryzen 5 220<br>• AMD Ryzen 3 PRO 210<br>• AMD Ryzen 3 210 |
| DRAM bus width | 64-bit |
| Flash EPROM | 64 MB |
| PCIe bus | Up to Gen4 |

# Operating system

Your Dell Pro 16 PC16255 supports the following operating systems:

**For computers shipped with AMD Ryzen AI 300 Series processors:**

- Windows 11 Home
- Windows 11 Professional

**For computers shipped with AMD Ryzen 200 Series processors:**

- Windows 11 Home
- Windows 11 Professional
- Windows 10 Home
- Windows 10 Professional

**NOTE:** If you downgrade your computer from Windows 11 to Windows 10 22H2, Dell Technologies support will follow the Microsoft Windows 10 End of Support plan.

# Memory

The following table lists the memory specifications that are supported by your Dell Pro 16 PC16255.

### Table 8. Memory specifications

| Description | Values |
|---|---|
| Memory slots | Two SODIMM slots |
| Memory type | DDR5 |
| Memory speed | 5600 MT/s |
| Maximum memory configuration | 64 GB |
| Minimum memory configuration | 8 GB |
| Memory size per slot | 8 GB, 16 GB, 32 GB |
| Memory configurations supported | • 8 GB: 1 x 8 GB, DDR5, 5600 MT/s, single-channel<br>• 16 GB: 2 x 8 GB, DDR5, 5600 MT/s, dual-channel<br>• 16 GB: 1 x 16 GB, DDR5, 5600 MT/s, single-channel<br>• 32 GB: 1 x 32 GB, DDR5, 5600 MT/s, single-channel<br>• 32 GB: 2 x 16 GB, DDR5, 5600 MT/s, dual-channel<br>• 64 GB: 2 x 32 GB, DDR5, 5600 MT/s, dual-channel |

# External ports and slots

The following table lists the external ports and slots on your Dell Pro 16 PC16255.

### Table 9. External ports and slots

| Description | Values |
|---|---|
| Network port | One RJ45 ethernet port (1 Gbps) |
| USB ports | • One USB 3.2 Gen 1 (5 Gbps) port<br>• One USB 3.2 Gen 1 (5 Gbps) port with PowerShare<br>• Two USB (40 Gbps) port with Power Delivery and DisplayPort<br>  ○ For computers shipped with AMD Ryzen AI 300 Series processors: Supports DisplayPort 2.1<br>  ○ For computers shipped with AMD Ryzen 200 Series processors: Supports DisplayPort 1.4a |

### Table 9. External ports and slots (continued)

| Description | Values |
|---|---|
| | **NOTE:** You can connect a Dell Docking Station to this port. For more information, search in the Knowledge Base Resource at Dell Support Site. |
| Audio port | One global headset port |
| Video port(s) | One HDMI 2.1 Transition-minimized differential signaling (TMDS) port |
| Media-card reader | Not applicable |
| Power-adapter port | One 4.5 mm x 2.9 mm DC-in |
| Security-cable slot | One security-cable slot (wedge-shaped) |

# Internal slots

The following table lists the internal slots of your Dell Pro 16 PC16255.

### Table 10. Internal slots

| Description | Values |
|---|---|
| M.2 | • One M.2 2230 slot for solid state drive<br>• One M.2 2230 slot for WLAN card, Wi-Fi/Bluetooth<br>**NOTE:** To learn more about the features of different types of M.2 cards, search Dell Support Site. |

# Ethernet

The following table lists the wired ethernet Local Area Network (LAN) specifications of your Dell Pro 16 PC16255.

### Table 11. Ethernet specifications

| Description | Values |
|---|---|
| Model | Integrated Realtek RTL8111H-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 Dell Pro 16 PC16255.

### Table 12. Wireless module specifications

| Description | Values |
|---|---|
| Model number | MediaTek MT7922 |
| Transfer rate | 2400 Mbps |
| Frequency bands supported | 2.4 GHz/5 GHz/6 GHz |

### Table 12. Wireless module specifications (continued)

| Description | Values |
|---|---|
| Wireless standards | • WiFi 802.11a/b/g<br>• Wi-Fi 4 (WiFi 802.11n)<br>• Wi-Fi 5 (WiFi 802.11ac)<br>• Wi-Fi 6E (WiFi 802.11ax) |
| Encryption | • 64-bit/128-bit WEP<br>• AES-CCMP<br>• TKIP |
| Bluetooth wireless card<br>**NOTE:** The functionality of the Bluetooth wireless card may vary based on the operating system. | Bluetooth 5.3 |

# Audio

The following table lists the audio specifications of your Dell Pro 16 PC16255.

### Table 13. Audio specifications

| Description | | Values |
|---|---|---|
| Audio controller | | Realtek ALC3204 |
| Stereo conversion | | Supported |
| Internal audio interface | | High definition audio |
| External audio interface | | One global headset (headphone and microphone combo) port |
| Number of speakers | | Two |
| Internal-speaker amplifier | | Supported (audio codec integrated) |
| External volume controls | | Keyboard shortcut controls |
| Speaker output: | | |
| | Average | 2 W x 2 = 4 W |
| | Peak | 2.5 W x 2 = 5 W |
| Microphone | | Dual-array microphone |

# Storage

This section lists the storage options on your Dell Pro 16 PC16255.

Your Dell Pro 16 PC16255 supports one of the following storage configurations:

- One M.2 2230 solid state drive

### Table 14. Storage specifications

| Storage type | Interface type | Capacity |
|---|---|---|
| M.2 2230 solid state drive, TLC | PCIe Gen4 NVMe, up to 64 Gbps | 256 GB/512 GB |
| M.2 2230 solid state drive, QLC | PCIe Gen4 NVMe, up to 64 Gbps | 512 GB/1 TB/2 TB |

# Keyboard

The following table lists the keyboard specifications of your Dell Pro 16 PC16255.

### Table 15. Keyboard specifications

| Description | Values |
|---|---|
| Keyboard type | • Backlit keyboard with Copilot key and fingerprint reader<br>• Backlit keyboard with Copilot key<br>• Non-backlit keyboard with Copilot key and fingerprint reader<br>• Non-backlit keyboard with Copilot key |
| Keyboard layout | QWERTY |
| Number of keys | • Arabic, Chinese (Traditional), English International, English US, Hebrew, Ukrainian: 99 keys with numeric keypad<br>• Belgian, Bulgarian, Czech and Slovakian (MUI), English UK, French (European), French (European), German, Hungarian, Greek, Hebrew, Italian, Nordic (MUI), Portuguese Iberian, Portuguese Brazil, Russian, Spanish (Castillian), Spanish (Latin America), Swiss European (MUI), Turkish: 100 keys with numeric keypad<br>• Japanese: 103 keys with numeric keypad |
| Key pitch | Horizontal= 18.05 mm (Numeric keypad: 17.05 mm)<br>Vertical= 18.05 mm |
| Keyboard shortcuts | Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions.<br>• To type the alternate character, press Shift and the desired key.<br>• To perform secondary functions, press Fn and the desired key.<br>**NOTE:** You can define the primary behavior of the function keys (F1–F12) by changing **Function Key Behavior** in the BIOS Setup program.<br>**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, see the Knowledge Base Resource at the Dell Support site. |

# Keyboard shortcuts of Dell Pro 16 PC16255

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

Some keys on your keyboard have two symbols on them. These keys can be used to type alternate 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.

The keys F1-F12 at the top row of the keyboard are function keys for multimedia control, as indicated by the icon on the key. Press the function key to enable the task represented by the icon. For example, pressing F1 mutes the audio (see the table below).

However, if the function keys F1-F12 are needed for specific software applications, multimedia functionality can be disabled by pressing **Fn** + **Esc**. Later, multimedia control can be invoked by pressing **Fn** and the respective function key. For example, mute audio by pressing **Fn** + **F1**.

**NOTE:** You can also define the primary behavior of the function keys (F1–F12) by changing **Function Key Behavior** in the BIOS setup program.

### Table 16. Function key primary behavior

| Function key | Primary behavior |
|---|---|
| F1 | Mute or unmute audio |
| F2 | Decrease volume |
| F3 | Increase volume |
| F4 | Microphone Mute |
| F5 | Keyboard Illumination/Backlight |
| F6 | Decrease screen brightness |
| F7 | Increase screen brightness |
| F8 | Switch to external display |
| F10 | Print screen |
| F11 | Home |
| F12 | End |

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

### Table 17. Secondary behavior

| Function key | Secondary behavior |
|---|---|
| Fn + F1 | Operating system and application-specific F1 behavior |
| Fn + F2 | Operating system and application-specific F2 behavior |
| Fn + F3 | Operating system and application-specific F3 behavior |
| Fn + F4 | Operating system and application-specific F4 behavior |
| Fn + F5 | Operating system and application-specific F5 behavior |
| Fn + F6 | Operating system and application-specific F6 behavior |
| Fn + F7 | Operating system and application-specific F6 behavior |
| Fn + F8 | Operating system and application-specific F8 behavior |
| Fn + F9 | Operating system and application-specific F9 behavior |
| Fn + F10 | Operating system and application-specific F10 behavior |
| Fn + F11 | Operating system and application-specific F11 behavior |
| Fn + F12 | Operating system and application-specific F12 behavior |
| Fn + Ctrl | Open the application menu |
| Fn + Esc | Toggle between multimedia and function key behavior |
| Fn + PgUp | Scroll up the document or page |
| Fn + PgDn | Scroll down the document or page |
| Fn + Home | Move to the beginning of the document |
| Fn + End | Move to the end of the document |
| Copilot | Launch Copilot in Windows |

### Table 17. Secondary behavior (continued)

| Function key | Secondary behavior |
|---|---|
| | **NOTE:** If Copilot in Windows is not available on your computer, the Copilot key launches Recall. If both Recall and Copilot in Windows are not available on your computer, the Copilot key launches Windows Search. For more information about Copilot in Windows and Recall, search in the Knowledge Base Resource at the Dell Support Site. |

# Camera

The following table lists the camera specifications of your Dell Pro 16 PC16255.

### Table 18. Camera specifications

| Description | | Values |
|---|---|---|
| Number of cameras | | Two<br>**NOTE:** The second camera is optional and may not be included in all configurations. |
| Camera type | | • HD RGB<br>• FHD RGB<br>• FHD RGB + IR |
| Camera location | | Front camera |
| Camera sensor type | | CMOS sensor technology |
| Camera resolution: | | |
| | Still image | • 0.92 megapixels (HD)<br>• 2.07 megapixels (FHD) |
| | Video | • 1280 x 720 (HD) at 30 fps<br>• 1920 x 1080 (FHD) at 30 fps |
| Infrared camera resolution: | | |
| | Video | 640 x 360 at 15 fps |
| Diagonal viewing angle: | | |
| | Camera | • 75.0 degress (HD)<br>• 80.2 degress (FHD) |
| | Infrared camera | 86.6 degrees |

# Touchpad

The following table lists the touchpad specifications of your Dell Pro 16 PC16255.

### Table 19. Touchpad specifications

| Description | | Values |
|---|---|---|
| Touchpad resolution: | | >300 DPI |
| Touchpad dimensions: | | |
| | Horizontal | 115.00 mm (4.52 in.) |
| | Vertical | 80.00 mm (4.52 in.) |
| Touchpad gestures | | For more information about the touchpad gestures available on Windows, search Microsoft Support Site. |

# Power adapter

The following table lists the power adapter specifications of your Dell Pro 16 PC16255.

### Table 20. Power-adapter specifications

| Description | | Option one | Option two | Option three |
|---|---|---|---|---|
| Type | | 65W AC adapter, 4.5 mm barrel, E4 | 65W AC adapter, USB Type-C, PECOS | 60W AC adapter, USB Type-C, 2-pin (Japan) |
| Connector dimensions: | | | | |
| | External diameter | 4.50 mm | Not applicable | Not applicable |
| | Internal diameter | 2.90 mm | N/A | N/A |
| Power-adapter dimensions: | | | | |
| | Height | 29.5 mm | 28 mm | 22 mm |
| | Width | 46.0 mm | 51 mm | 55 mm |
| | Depth | 108.0 mm | 112 mm | 66 mm |
| Input voltage | | 100 VAC - 240 VAC | 100 VAC - 240 VAC | 100 VAC - 240 VAC |
| Input frequency | | 50 Hz - 60 Hz | 50 Hz - 60 Hz | 50 Hz - 60 Hz |
| Input current (maximum) | | 1.7 A | 1.7 A | 1.7 A |
| Output current (continuous) | | 3.34 A | • 20 V/3.25 A (Continuous)<br>• 15 V/3 A (Continuous)<br>• 9 V/3 A (Continuous)<br>• 5 V/3 A (Continuous) | • 20 V/3 A (Continuous)<br>• 15 V/3 A (Continuous)<br>• 9 V/3 A (Continuous)<br>• 5 V/3 A (Continuous) |
| Rated output voltage | | 19.5 VDC | • 20 VDC<br>• 15 VDC<br>• 9 VDC<br>• 5 VDC | • 20 VDC<br>• 15 VDC<br>• 9 VDC<br>• 5 VDC |
| Temperature range: | | | | |

### Table 20. Power-adapter specifications (continued)

| Description | | Option one | Option two | Option three |
|---|---|---|---|---|
| | Operating | 0°C to 40°C (32°F to 104°F) | 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) | -40°C to 70°C (-40°F to 158°F) |
| **CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.** | | | | |

# Power adapter requirements (for computers that are shipped with a 3-cell, 45 Wh battery)

**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 Pro 16 PC16255.

### Table 21. Power adapter requirements

| Description | Value |
|---|---|
| Power that is required from a power adapter to achieve optimal performance. | 65 W |
| Power that charges the computer at a slower speed.<br>**NOTE:** A warning message may appear informing you about the use of a lower-powered adapter and slower charging speed. | Less than 60 W |
| Minimum power that is required from a power adapter to operate the computer and charge the battery.<br>**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<br>**NOTE:** Ensure that the computer with a 45 Wh battery is connected to a 65 W power adapter for this feature to be supported.<br>**NOTE:** ExpressCharge mode must also be enabled in the BIOS Setup screen. Select **Power** > **Battery Configuration** > **ExpressCharge**, then press **Enter**. |

# Power adapter requirements (for computers that are shipped with a 3-cell, 55 Wh battery)

**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 Pro 16 PC16255.

### Table 22. Power adapter requirements

| Description | Value |
|---|---|
| Power that is required from a power adapter to achieve optimal performance. | 65 W |
| Power that charges the computer at a slower speed.<br>**NOTE:** A warning message may appear informing you about the use of a lower-powered adapter and slower charging speed. | Less than 60 W |
| Minimum power that is required from a power adapter to operate the computer and charge the battery.<br>**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<br>**NOTE:** Ensure that the computer with a 55 Wh battery is connected to a 90 W power adapter for this feature to be supported.<br>**NOTE:** ExpressCharge mode must also be enabled in the BIOS Setup screen. Select **Power** > **Battery Configuration** > **ExpressCharge**, then press **Enter** |

# Battery

The following table lists the battery specifications of your Dell Pro 16 PC16255.

### Table 23. Battery specifications

| Description | | Option one | Option two | Option three | Option four |
|---|---|---|---|---|---|
| Battery type | | 3-cell, 45 Wh, ExpressCharge 1.0, ExpressCharge Boost | 3-cell, 45 Wh, ExpressCharge 1.0, ExpressCharge Boost, Long Life Cycle | 3-cell, 55 Wh, ExpressCharge 1.0, ExpressCharge Boost Capable | 3-cell, 55 Wh, ExpressCharge 1.0, ExpressCharge Boost, Long Life Cycle |
| Battery voltage | | 11.25 VDC | 11.25 VDC | 11.70 VDC | 11.70 VDC |
| Battery weight (maximum) | | 0.20 kg (0.44 lb) | 0.20 kg (0.44 lb) | 0.21 kg (0.48 lb) | 0.21 kg (0.48 lb) |
| Battery dimensions: | | | | | |
| | Height | 6.30 mm (0.25 in.) | 6.30 mm (0.25 in.) | 6.30 mm (0.25 in.) | 6.30 mm (0.25 in.) |
| | Width | 255.05 mm (10.04 in.) | 255.05 mm (10.04 in.) | 255.05 mm (10.04 in.) | 255.05 mm (10.04 in.) |
| | Depth | 73.00 mm (2.87 in.) | 73.00 mm (2.87 in.) | 73.00 mm (2.87 in.) | 73.00 mm (2.87 in.) |
| Temperature range: | | | | | |
| | Operating | • Charge: 0°C to 45°C (32°F to 113°F) | • Charge: 0°C to 45°C (32°F to 113°F)<br>• Discharge: 0°C to 70°C (32°F to 158°F) | • Charge: 0°C to 45°C (32°F to 113°F) | • Charge: 0°C to 45°C (32°F to 113°F) |

**Table 23. Battery specifications (continued)**

| Description | | Option one | Option two | Option three | Option four |
|---|---|---|---|---|---|
| | | • Discharge: 0°C to 70°C (32°F to 158°F) | | • Discharge: 0°C to 70°C (32°F to 158°F) | • Discharge: 0°C to 70°C (32°F to 158°F) |
| | Storage | -20°C to 60°C (-4°F to 140°F) | -20°C to 60°C (-4°F to 140°F) | -20°C to 60°C (-4°F to 140°F) | -20°C to 60°C (-4°F to 140°F) |
| Battery operating time | | Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions. | Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions. | Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions. | Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions. |
| Battery charging time (approximate)<br>**NOTE:** Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on the Dell Power Manager see, *Me and My Dell* on dell support. | | • 0°C to 15°C—4 hours (when the computer is off)<br>• 16°C to 45°C—2 hours (when the computer is off)<br>• 46°C to 50°C—3 hours(when the computer is off) | • 0°C to 15°C—4 hours (when the computer is off)<br>• 16°C to 45°C—2 hours (when the computer is off)<br>• 46°C to 50°C—3 hours(when the computer is off) | • 0°C to 15°C—4 hours (when the computer is off)<br>• 16°C to 45°C—2 hours (when the computer is off)<br>• 46°C to 50°C—3 hours(when the computer is off) | • 0°C to 15°C—4 hours (when the computer is off)<br>• 16°C to 45°C—2 hours (when the computer is off)<br>• 46°C to 50°C—3 hours(when the computer is off) |
| Coin-cell battery | | Not supported | Not supported | Not supported | Not supported |

**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.**

**CAUTION: Dell recommends that you charge the battery regularly for optimal power consumption. If your battery charge is completely depleted, connect the power adapter, turn on your computer, and then restart your computer to reduce the power consumption.**

# Power requirements (for computers that are shipped with a 3-cell, 45 Wh battery)

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

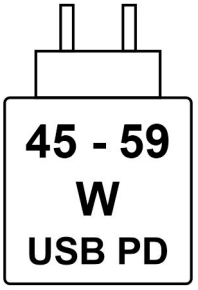



**Figure 8. Pictogram for power charging requirements**

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 59 Watts in order to achieve the maximum charging speed.

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

## Power requirements (for computers that are shipped with a 3-cell, 55 Wh battery)

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

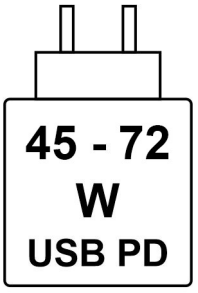



**Figure 9. Pictogram for power charging requirements**

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 72 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 Pro 16 PC16255.

**Table 24. Display specifications**

| Description | | Option one | Option two |
|---|---|---|---|
| Display type | | 16-inch, Full High Definition Plus (FHD+) | 16-inch, Full High Definition Plus (FHD+) |
| Touch options | | Non-Touch | Touch |
| Display-panel technology | | In-Plane Switching (IPS) | In-Plane Switching (IPS) |
| Display-panel dimensions (active area): | | | |
| | Height | 215.42 mm (8.48 in.) | 215.42 mm (8.48 in.) |
| | Width | 344.68 mm (13.57 in.) | 344.68 mm (13.57 in.) |
| | Diagonal | 406.46 mm (16.00 in.) | 406.46 mm (16.00 in.) |
| Display-panel native resolution | | 1920 x 1200 | 1920 x 1200 |
| Luminance (typical) | | 300 nits | 300 nits |
| Megapixels | | 2.30 | 2.30 |
| Color gamut | | 45% NTSC (typical) | 45% NTSC (typical) |
| Pixels Per Inch (PPI) | | 141 | 141 |

### Table 24. Display specifications (continued)

| Description | Option one | Option two |
|---|---|---|
| Contrast ratio (minimum) | • 800:1 (minimum)<br>• 1000:1 (typical) | • 800:1 (minimum)<br>• 1000:1 (typical) |
| Response time (maximum) | 35 milliseconds | 35 milliseconds |
| Refresh rate | 60 Hz | 60 Hz |
| Horizontal view angle | • +/- 80 degrees (minimum)<br>• +/- 85 degrees (typical) | • +/- 80 degrees (minimum)<br>• +/- 85 degrees (typical) |
| Vertical view angle | • +/- 80 degrees (minimum)<br>• +/- 85 degrees (typical) | • +/- 80 degrees (minimum)<br>• +/- 85 degrees (typical) |
| Pixel pitch | 0.1795 mm | 0.1795 mm |
| Power consumption (maximum) | 4.40 W | 5.60 W |
| Anti-glare vs glossy finish | Anti-glare | Anti-glare |

# Fingerprint reader (optional)

The following table lists the specifications of the optional fingerprint-reader of your Dell Pro 16 PC16255.

### Table 25. Fingerprint reader specifications

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

# Sensors

The following table lists the sensors of your Dell Pro 16 PC16255.

### Table 26. Sensor

| Sensor support |
|---|
| Hall Effect sensor |

# GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Dell Pro 16 PC16255.

### Table 27. GPU—Integrated

| Controller | Memory size | Processor |
|---|---|---|
| AMD Radeon 740M Graphics | Shared system memory | • AMD Ryzen 3 210<br>• AMD Ryzen 3 PRO 210 |

### Table 27. GPU—Integrated (continued)

| Controller | Memory size | Processor |
|---|---|---|
| | | • AMD Ryzen 5 220<br>• AMD Ryzen 5 PRO 215<br>• AMD Ryzen 5 PRO 220 |
| AMD Radeon 760M Graphics | Shared system memory | • AMD Ryzen 5 PRO 230 |
| AMD Radeon 840M Graphics | Shared system memory | • AMD Ryzen AI 5 PRO 340 |
| AMD Radeon 860M Graphics | Shared system memory | • AMD Ryzen AI 7 350<br>• AMD Ryzen AI 7 PRO 350 |

# Multiple display support matrix

The following table lists the multiple display support matrix for your Dell Pro 16 PC16255.

### Table 28. Multiple display support matrix

| Graphics Card | Direct Graphics Controller Direct Output Mode | Supported external displays with computer internal display on | Supported external displays with computer internal display off |
|---|---|---|---|
| AMD Radeon 740M Graphics | Integrated | 3 | 4 |
| AMD Radeon 760M Graphics | Integrated | 3 | 4 |
| AMD Radeon 840M Graphics | Integrated | 3 | 4 |
| AMD Radeon 860M Graphics | Integrated | 3 | 4 |

# Hardware security

The following table lists the hardware security of your Dell Pro 16 PC16255.

### Table 29. Hardware security

| Hardware security |
|---|
| One wedge-shaped lock slot |
| Trusted Platform Module (TPM) 2.0 discrete |
| Mechanical camera privacy shutter |
| FIPS (Federal Information Processing Standards) 140-2 certification for Trusted Platform Module (TPM) |
| Trusted Computing Group (TCG) Certification for TPM |
| Chassis Intrusion Detection |
| BIOS - TPM clear and/or system boot lock after chassis intrusion detection |

# Operating and storage environment

This table lists the operating and storage specifications of your Dell Pro 16 PC16255.

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

### Table 30. Computer environment

| Description | Operating | Storage |
|---|---|---|
| Temperature range | 0°C to 40°C (32 °F to 104°F) | -40°C to 65°C (-40°F to 149°F) |
| Relative humidity (maximum) | 90% (non-condensing) | 95% (non-condensing) |
| Vibration (maximum)* | 0.66 GRMS | Not applicable |
| Shock (maximum) | 140 G† | Not applicable |
| Altitude range | -15.2 m to 3048 m (-49.87 ft to 10,000 ft) | -15.2 m to 10,668 m (-49.87 ft to 35,000 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 Dell Support Site.

# Dell Optimizer

Dell Optimizer is an application that is designed to enhance computer performance and productivity by optimizing settings for power, battery, display, 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.