

# Dell Wyse 5470 Thin Client

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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# Set up your Wyse 5470 thin client

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

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



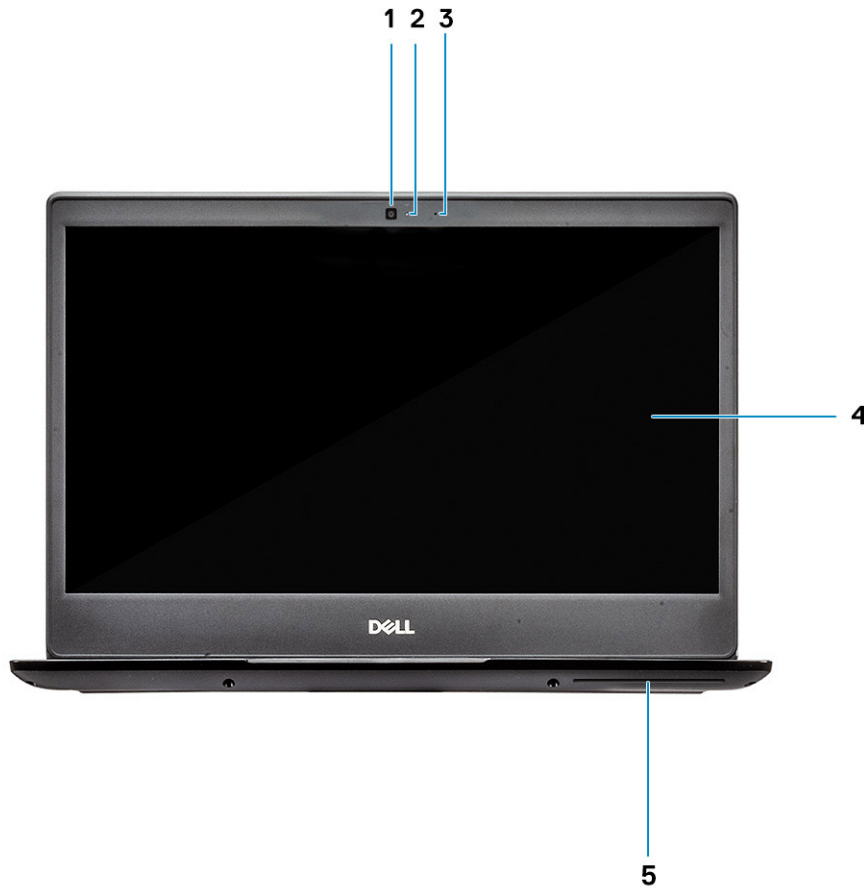
**NOTE:** To conserve battery power, the battery might enter power-saving mode. Connect the power adapter and press the power button to turn on the thin client.

- 2 Finish operating system setup.

## Chassis overview

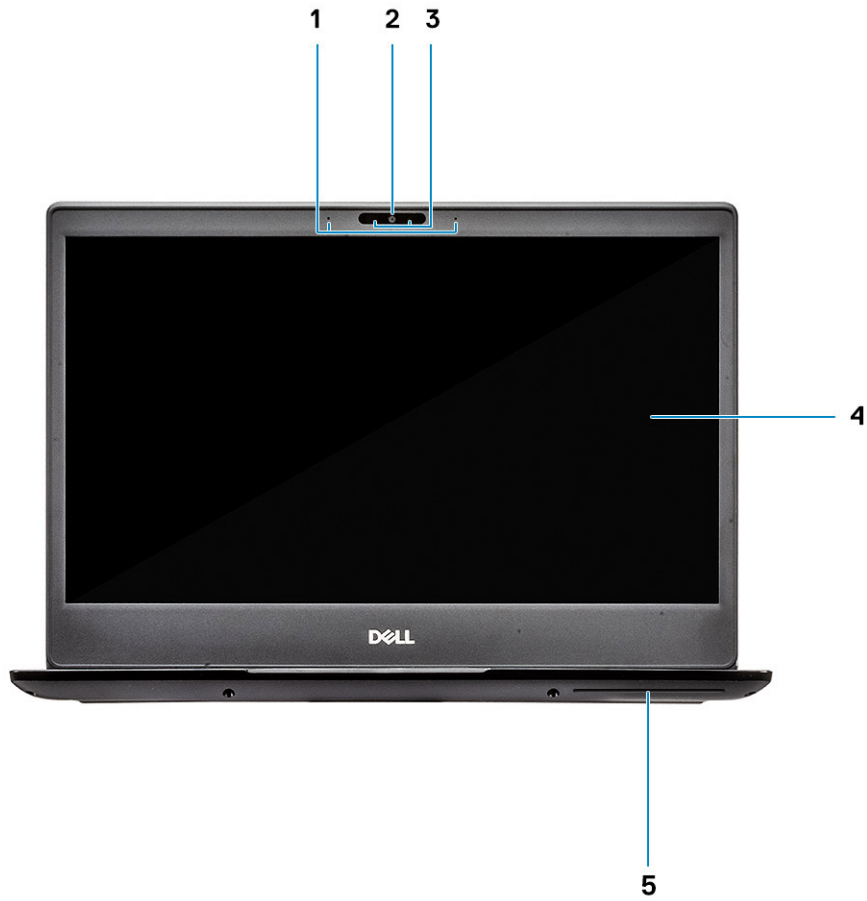
### Display view

Wyse 5470 with Nontouch screen



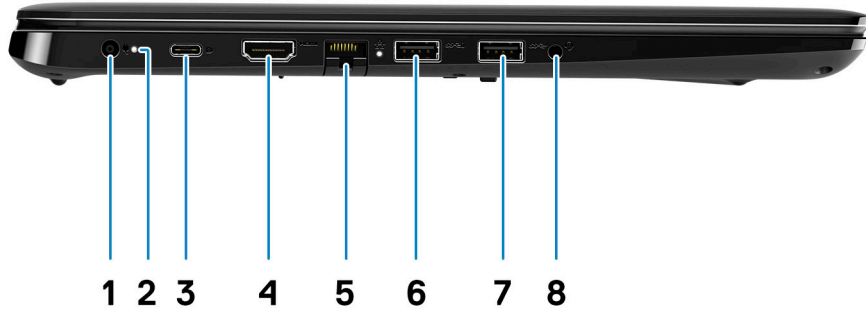
- 1 Camera
- 2 Camera status light
- 3 Microphone
- 4 LCD panel
- 5 Common Access Card reader—optional

Wyse 5470 with touch screen (optional)



- 1 Microphone
- 2 Camera
- 3 Camera status light
- 4 LCD panel
- 5 Common Access Card reader—optional

## Left view



- |   |   |   |                      |
|---|---|---|----------------------|
| 1 | Power in (4.5 mm adapter)                                     | 2 | Battery status light |
| 3 | USB Type-C 3.1 Gen 1 port with Power delivery and DisplayPort | 4 | HDMI 2.0a port       |
| 5 | RJ45 port   | 6 | USB 3.1 Gen 1 port   |
| 7 | USB 3.1 Gen 1 port  | 8 | Universal audio jack |

## Right view



- |   |                           |   |                              |
|---|---------------------------|---|------------------------------|
| 1 | SD 3.0 memory card reader | 2 | USB 2.0 port with PowerShare |
| 3 | VGA port                  | 4 | Noble Wedge Lock slot        |

# Palm-rest view

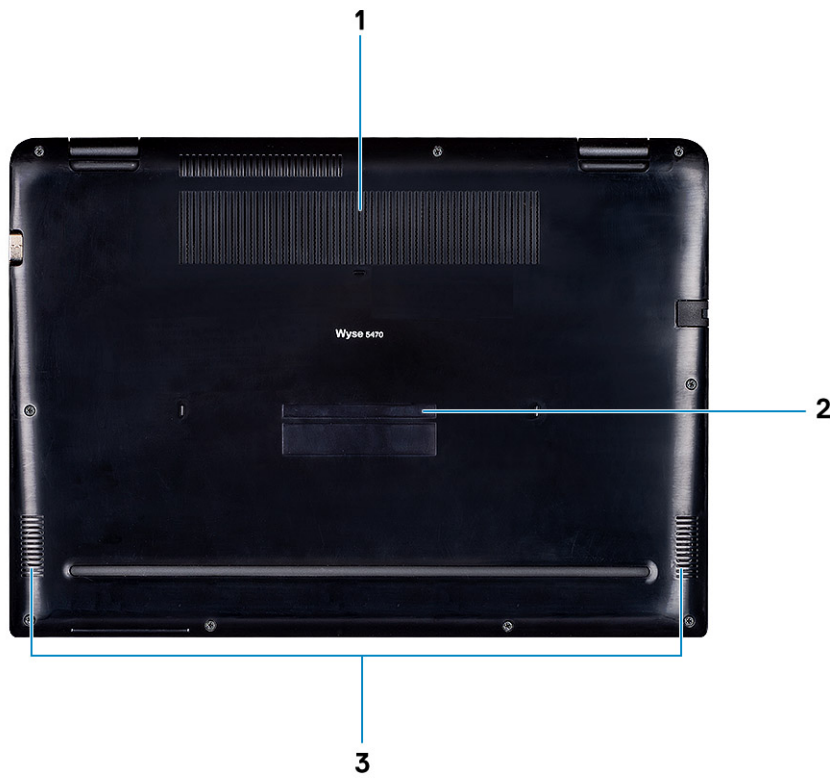


- 1 Power button
- 3 Touch pad

- 2 Keyboard



# Base view



- 1 Heat sink vent
- 2 Service tag label
- 3 Speakers

# Keyboard shortcuts

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

Table 1. Keyboard shortcuts

Keys	Description
Fn + F1	Mute audio
Fn + F2	Decrease volume
Fn + F3	Increase volume
Fn + F4	Backward
Fn + F5	Play/pause
Fn + F6	Forward
Fn + F8	Display Toggle (Win + P)
Fn + F9	Search
Fn + F10	Toggle keyboard back light
Fn + F11	Decrease brightness
Fn + F12	Increase brightness

<b>Keys</b>	<b>Description</b>
Fn + PrtScr	Toggle Wi-Fi On/Off
Fn + Ctrl	Open application
Fn + Esc	Toggle Fn-key lock
Fn + Up arrow	Page Up
Fn + Down arrow	Page Down
Fn + Right arrow	End
Fn + Left arrow	Home

# Technical Specifications

## Chipset

**Table 2. Chipset**

Description	Values
Chipset	Intel Gemini Lake
Processor	Intel Celeron N4000/N4100
DRAM bus width	64-bit
Flash EPROM	16 MB
PCIe bus	PCIe 2.0

## Processors

**Table 3. Processors**

Description	Values
Processors	Intel Celeron N4000      Intel Celeron N4100
Wattage	6 W      6 W
Core count	2      4
Thread count	2      4
Speed	2.60 GHz      2.40 GHz
Cache	4 MB      4 MB
Integrated graphics	Intel UHD Graphics 600      Intel UHD Graphics 600

## Memory

**Table 4. Memory specifications**

Description	Values
Slots	Two SODIMM slots
Type	Single-channel DDR4
Speed	2400 MHz
Maximum memory	8 GB
Minimum memory	4 GB
Memory size per slot	4 GB
Configurations supported	<ul style="list-style-type: none"> <li>4 GB DDR4 (1 x 4 GB)—All supported operating systems</li> </ul>

Description	Values
	<ul style="list-style-type: none"> <li>8 GB DDR4 (2 x 4 GB)—Supported only on Windows 10 IoT Enterprise 2016</li> </ul>

## Ports and connectors

**Table 5. Ports and connectors**

Description	Values
Network	One RJ45, 10/100/1000
USB	<ul style="list-style-type: none"> <li>One USB 2.0 Type A port with PowerShare</li> <li>One USB Type-C port</li> <li>Two USB 3.1 Gen 1 ports</li> </ul>
Audio	One universal audio jack (headphone and microphone combo port)
Video	<ul style="list-style-type: none"> <li>One VGA port</li> <li>One HDMI 2.0a port</li> </ul>
Memory card reader	One SD 3.0 memory card reader
Docking port	Supported
Power adapter port	One
Security	Noble wedge-shaped lock slot
Smart card	Common Access Card—optional Accepts 1.8 V, 3 V, and 5 V cards

## Smart card reader

**Table 6. Common Access Card—optional**

Description	Values
Common Access Card—optional	<ul style="list-style-type: none"> <li>1.8 V</li> <li>3 V</li> <li>5 V</li> </ul>

## Storage

Your thin client supports one of the following configurations:

- M.2 2230 solid-state drive
- M.2 2280 solid-state drive
- eMMC Storage (soldered on the system board)

**Table 7. Storage specifications**

Type	Form factor	Interface	Capacity	Operating system
M.2 2230 128GB PCIe NVMe Solid-State Drive	M.2 SSD 2230/2280	PCIe Gen 2x2 NVMe, up to 8 Gbps	128 GB	Windows 10 IoT Enterprise 2016
M.2 2230 32 GB SATA Solid-State Drive	M.2 SSD 2230/2280	SATA AHCI, up to 6 Gbps	32 GB	Windows 10 IoT Enterprise 2016
eMMC Storage	Soldered on the system board	eMMC v5.1, up to HS400 mode	16 GB	ThinOS, ThinOS with PCoIP, and ThinLinux

**NOTE:** If shipped with your system, the M.2 SSD will be the default primary drive.

## Physical specifications

**Table 8. Dimensions and weight**

Description	Values
Height	
<ul style="list-style-type: none"> <li>Front</li> <li>Back</li> </ul>	<ul style="list-style-type: none"> <li>20.6 mm (0.81 in.)</li> <li>20.6 mm (0.81 in.)</li> </ul>
Width	330.3 mm (13.0 in.)
Depth	238 mm (9.37 in.)
Weight	Starting 1.79 kg (3.946 lb)

## Operating system

The following operating systems are supported by the Wyse 5470 thin client:

- Wyse ThinOS
- Wyse ThinOS with PCoIP
- Wyse ThinLinux
- Windows 10 IoT Enterprise 2016

## Communications

### Ethernet

**Table 9. Ethernet specifications**

Description	Values
Network adapter	Integrated Realtek RTL8111HN Ethernet (RJ45)
Transfer rate	10/100/1000 Mb/s

# Wireless module

**Table 10. Wireless module specifications**

Description	Values
Model number	Intel Dual Band Wireless AC 9560 (802.11ac) 2x2 + Bluetooth 5.0
Transfer rate	1.73 Gbps
Frequency bands supported	2.4/ 5 GHz (160 MHz)
Wireless standards	WiFi 802.11b/g/a/n/ac
Encryption	64/128-bit encryption
Bluetooth	Bluetooth 5.0

**NOTE:** Bluetooth is optional with the thin client.

# Audio

**Table 11. Audio specifications**

Description	Values
Controller	Realtek ALC3253
Stereo conversion	Supported
Internal interface	Intel HDA
External interface	Universal audio jack
Speakers	Two stereo
Interface	Headphone and microphone combo port
Internal speaker amplifier	Supported (audio codec-integrated amplifier)
External volume controls	Keyboard shortcut controls
Speaker output	2 W
Subwoofer output	Not supported
Microphone	Dual-array microphones

# Media card-reader

**Table 12. Media card-reader specifications**

Description	Values
Type	One SD-card slot
Supported cards	Secure Digital (SD), Secure Digital High Capacity (SDHC), and Secure Digital Extended Capacity (SDXC)

# Keyboard

Table 13. Keyboard specifications

Description	Values
Type	Standard keyboard
Layout	QWERTY/AZERTY/Kanji
Number of keys	<ul style="list-style-type: none"><li>U.S. and Canada: 103 keys</li><li>Europe: 104 keys</li><li>Brazil: 106 keys</li><li>Japan: 107 keys</li></ul>
Size	<ul style="list-style-type: none"><li>X = 19.00 mm key pitch</li><li>Y = 19.00 mm key pitch</li></ul>
Backlit keyboard	Yes  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.  <b>NOTE:</b> You can define the primary behavior of the function keys (F1–F12) changing Function Key Behavior in BIOS setup program.



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

[Keyboard shortcuts](#)

# Camera

Table 14. Camera specifications

Description	Values
Number of cameras	One
Type	Optional RGB HD 720p camera
Location	Front camera
Resolution:	
<ul style="list-style-type: none"><li>Still image</li><li>Video</li></ul>	<ul style="list-style-type: none"><li>Still image: 0.92 megapixels</li><li>Video: 1280 x 720 at 30 fps and 60 fps</li></ul>
Diagonal viewing angle	86.7 degrees

# Touch pad

Table 15. Touch pad specifications

Description	Values
Resolution	
<ul style="list-style-type: none"><li>Horizontal</li><li>Vertical</li></ul>	<ul style="list-style-type: none"><li>305</li><li>305</li></ul>
Dimensions	
<ul style="list-style-type: none"><li>Width</li><li>Height</li></ul>	<ul style="list-style-type: none"><li>105 mm (4.13 in.)</li><li>65 mm (3.15 in.)</li></ul>

# Power adapter

Table 16. Power adapter specifications

Description	Values
Type	E4 65 W adapter 4.5 mm barrel E5 65W—65-Watt Type-C adapter (Upsell)
Input Voltage	100 VAC to 240 VAC 100 VAC to 240 VAC
Input current (maximum)	2.5 A 1.7 A
Input frequency	50 Hz to 60 Hz 50 Hz to 60 Hz
Output current	3.34 A 3.34 A
Rated output voltage	19.50 VDC 19.50 VDC
Temperature range:	
<ul style="list-style-type: none"><li>Operating</li><li>Storage</li></ul>	<ul style="list-style-type: none"><li>0 °C to 40 °C (32 °F to 104 °F)</li><li>-40 °C to 70 °C (-40 °F to 158 °F)</li><li>0 °C to 40 °C (32 °F to 104 °F)</li><li>-40 °C to 70 °C (-40 °F to 158 °F)</li></ul>

# Battery

Table 17. Battery specifications

Description	Values
Type	42 WHr lithium-ion 3 cell battery
Voltage	11.40 VDC
Weight (maximum)	252 g (0.555 lb)
Dimension:	
<ul style="list-style-type: none"><li>Length</li><li>Width</li><li>Height</li></ul>	<ul style="list-style-type: none"><li>175.5 mm (6.909 in.)</li><li>91 mm (3.58 in.)</li><li>5.9 mm (0.23 in.)</li></ul>
Temperature range:	



Description	Values
<ul style="list-style-type: none"> <li>Operating</li> <li>Storage</li> </ul>	<ul style="list-style-type: none"> <li>0 °C to 35 °C (32 °F to 95 °F)</li> <li>-40 °C to 65 °C (-40 °F to 149 °F)</li> </ul>
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions
Charging time (approximate):	
<ul style="list-style-type: none"> <li>Normal mode</li> <li>Express mode</li> </ul>	<ul style="list-style-type: none"> <li>4 hours (approximate)</li> <li>Less than 1.5 hours to charge 80%</li> </ul>
	<p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>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 <i>Me and My Dell</i> on <a href="http://www.dell.com">www.dell.com</a></li> <li>Supports Dell ExpressCharge</li> </ul>
Life span	300 discharge/recharge cycles
Coin-cell battery	CR 2032 lithium coin-cell battery

**NOTE:**

- Do not ingest the battery, as it causes chemical burn hazard.
- If the coin/button cell battery is swallowed, it can cause severe internal burns in just two hours, and can lead to death.
- Keep the new and used batteries away from children.
- If the battery compartment does not close securely, stop using the thin client and keep it away from children.
- If the batteries have been swallowed, seek medical attention immediately.

## Display

**Table 18. Display specifications**

Description	Values
Type	High definition (HD) Full High definition (FHD) Full High definition (FHD) touch panel
	<ul style="list-style-type: none"> <li>14.0 in. HD (1366 x 768) Anti-glare, Camera, and Microphone</li> <li>14.0 in. FHD (1920 x 1080) Anti-glare, Camera, and Microphone</li> </ul>

Description	Values		
	<ul style="list-style-type: none"> <li>14.0 in. FHD (1920 x 1080) Anti-glare with Embedded Touch, IR Camera, and Microphone</li> </ul>		
Panel technology	Twisted Nematic (TN)	Twisted Nematic (TN)	Twisted Nematic (TN)
Luminance (typical)	220 nits	220 nits	220 nits
Dimensions (active area):			
<ul style="list-style-type: none"> <li>Height</li> <li>Width</li> <li>Diagonal</li> </ul>	<ul style="list-style-type: none"> <li>173.95 mm (6.84 in.)</li> <li>309.4 (12.18 in.)</li> <li>355.6 mm (14 in.)</li> </ul>	<ul style="list-style-type: none"> <li>173.95 mm (6.84 in.)</li> <li>309.4 (12.18 in.)</li> <li>355.6 mm (14 in.)</li> </ul>	<ul style="list-style-type: none"> <li>173.95 mm (6.84 in.)</li> <li>309.4 (12.18 in.)</li> <li>355.6 mm (14 in.)</li> </ul>
Native Resolution	1366x768	1920x1080	1920 x 1080
Megapixels	1.05	2.07	2.07
Color gamut	45% (NTSC)	45% (NTSC)	45% (NTSC)
Pixels per in. (PPI)	112	157	157
Contrast ratio (min)	300:1	600:1	600:1
Response time (max)	25	35	35
Refresh rate	60 Hz	60 Hz	60 Hz
Horizontal view angle	40 (L)/40 (R) degrees	40 (L)/40 (R) degrees	40 (L)/40 (R) degrees
Vertical view angle	10 (U)/30 (D) degrees	10 (U)/30 (D) degrees	10 (U)/30 (D) degrees
Pixel pitch	0.226 x 0.226	0.226 x 0.226	0.226 x 0.226
Power consumption (maximum)	2.4	2.8	2.3154
Anti-glare vs glossy finish	Anti-glare	Anti-glare	Anti-glare
Touch options	No	No	Yes

## Video

**Table 19. Integrated graphics specifications**

Controller	External display support	Memory size	Processor
Intel UHD Graphics 600	<ul style="list-style-type: none"> <li>One HDMI 2.0a port</li> <li>One VGA port</li> <li>DisplayPort 1.2a through USB Type-C dock</li> </ul>	Shared system memory	<ul style="list-style-type: none"> <li>Intel Celeron N4000 Processor</li> <li>Intel Celeron N4100 Processor</li> </ul>

# Environmental specifications

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

**Table 20. Environmental specifications**

	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 80% (non-condensing)	10% to 95% (non-condensing)
	<b>NOTE: Maximum dew point temperature = 26 °C</b>	<b>NOTE: Maximum dew point temperature = 33 °C</b>
Vibration (maximum)*	0.26 GRMS	1.37 GRMS
Shock (maximum)	105 G †	40 G ‡
Altitude (maximum)	-15.2 m to 3,048 m (-50 ft to 10,000 ft)	-15.2 m to 10,668 m (-50 ft to 35,000 ft)

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

† Measured using a 2-ms half-sine pulse when the hard drive is in use.

‡ Measured using a 2-ms half-sine pulse when the hard drive head is in parked position.

## Security

**Table 21. Security**

Description	Values
Trusted Platform Module (TPM) 2.0	Integrated on the system board
Cable lock	Noble wedge lock

## Management software

Wyse Management Suite

## Security software

**Table 22. Security software**

Specifications
Dell Client Command Suite
Optional Dell Data Security for Windows 10 IoT Enterprise 2016
<ul style="list-style-type: none"><li>Dell Threat Defense</li><li>Dell Endpoint Security Suite Enterprise</li></ul>

This chapter details the supported operating systems along with instructions on how to install the drivers.

## Downloading drivers

- 1 Turn on the thin client.
- 2 Go to [Dell.com/support](https://Dell.com/support).
- 3 Click **Product Support**, enter the Service Tag of your thin client, and then click **Submit**.

**NOTE:** If you do not have the Service Tag, use the auto detect feature or manually browse for your thin client model.

- 4 Click **Drivers and Downloads**.
- 5 Select the operating system installed on your thin client.
- 6 Scroll down the page and select the driver to install.
- 7 Click **Download File** to download the driver for your thin client.
- 8 After the download is complete, go to the folder where you saved the driver file.
- 9 Double-click the driver file icon and follow the instructions on the screen.

# Getting help

## Contacting Dell

① **NOTE:** If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

- 1 Go to **Dell.com/support**.
- 2 Select your support category.
- 3 Verify your country or region in the **Choose a Country/Region** drop-down list at the bottom of the page.
- 4 Select the appropriate service or support link based on your need.