

# Latitude 3320

## 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.

<b>Chapter 1: Set up your Latitude 3320</b> .....	<b>4</b>
<b>Chapter 2: Views of Latitude 3320</b> .....	<b>6</b>
Right .....	6
Left .....	6
Top.....	7
Front.....	8
Bottom .....	9
LED Indicators and Characteristics.....	9
Battery Charge and Status LED .....	9
<b>Chapter 3: Specifications of Latitude 3320</b> .....	<b>10</b>
Dimensions and weight.....	10
Processors.....	10
Chipset.....	10
Operating system.....	11
Memory.....	11
Intel Optane memory (optional).....	11
External ports.....	12
Internal slots.....	12
Wireless module.....	13
Audio.....	13
Storage.....	14
Keyboard.....	14
Camera.....	14
Touchpad.....	15
Power adapter.....	15
Battery.....	16
Display.....	17
Fingerprint reader.....	18
GPU—Integrated.....	18
Operating and storage environment.....	18
<b>Chapter 4: Keyboard shortcuts</b> .....	<b>19</b>
<b>Chapter 5: Getting help and contacting Dell</b> .....	<b>21</b>

# Set up your Latitude 3320

## 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.

Latitude 3320



**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 computer.



2. Finish Windows system setup.

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





- Connect to a network for Windows updates.
  - NOTE:** If connecting to a secured wireless network, enter the password for the wireless network access when prompted.
- If connected to the internet, sign-in with or create a Microsoft account. If not connected to the internet, create an offline account.
- On the **Support and Protection** screen, enter your contact details.

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

**Table 1. Locate Dell apps**

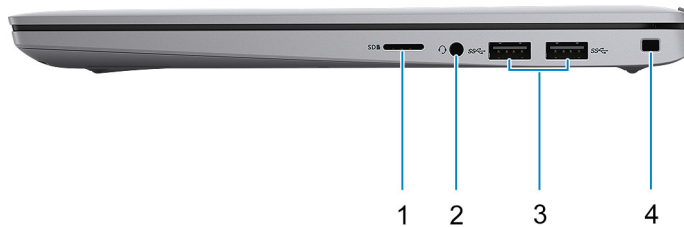
	<p><b>Dell Product Registration</b> Register your computer with Dell.</p>
	<p><b>Dell Help &amp; Support</b> Access help and support for your computer.</p>

**Table 1. Locate Dell apps (continued)**

	<p><b>SupportAssist</b></p> <p>SupportAssist is the smart technology that keeps your computer running at its best by optimizing settings, detecting issues, removing viruses and notifies when you need to make system updates. SupportAssist proactively checks the health of your system's 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 Windows operating system. For more information, see SupportAssist for Business PC s User's Guide on <a href="http://www.dell.com/serviceabilitytools">www.dell.com/serviceabilitytools</a>.</p> <p> <b>NOTE:</b> In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.</p>
	<p><b>Dell Update</b></p> <p>Updates your computer with critical fixes and latest device drivers as they become available.</p>
	<p><b>Dell Digital Delivery</b></p> <p>Download software applications, which are purchased but not pre-installed on your computer.</p>

## Views of Latitude 3320

### Right



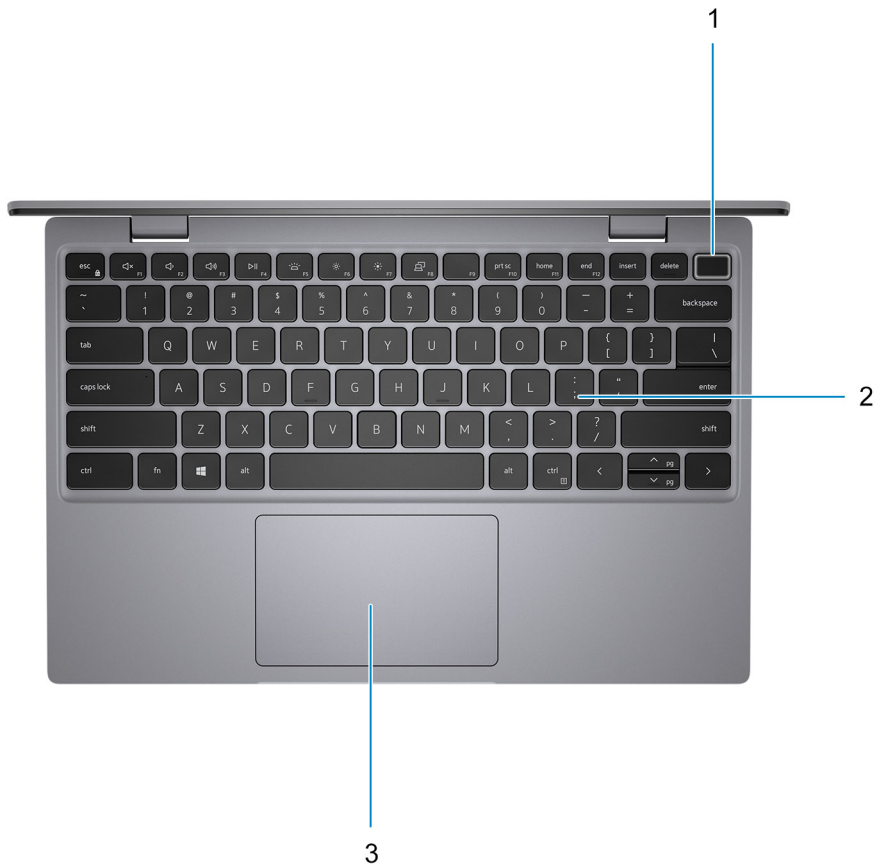
1. microSD-card slot
2. Universal audio port
3. Two USB 3.2 Gen 1 ports
4. Wedge-shaped lock slot

### Left



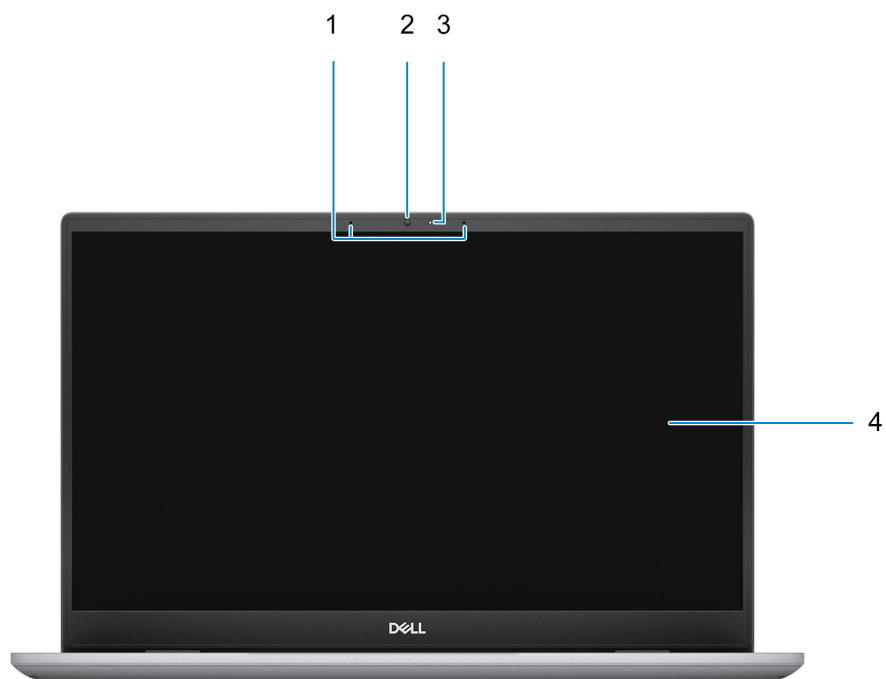
1. Power adapter port
2. HDMI 1.4b port
3. USB 3.2 Gen2x2 Type-C port with DisplayPort 1.4/Power Delivery
4. Power and battery status light

# Top



1. Power-button/power-button with fingerprint reader (optional)
2. Keyboard
3. Touchpad

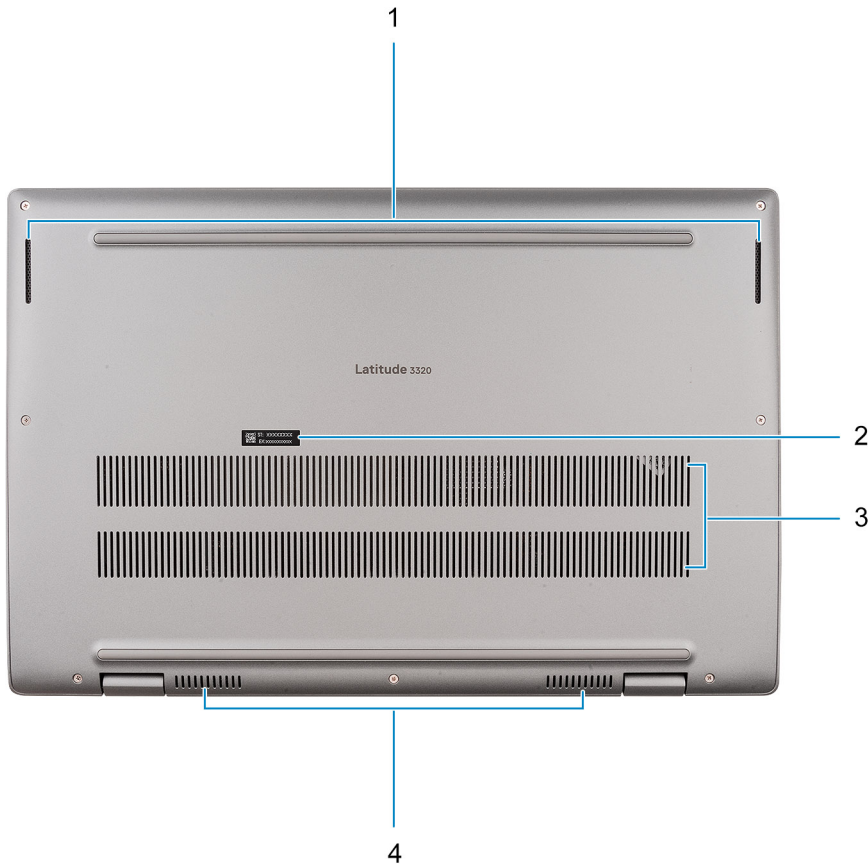
# Front



1. Microphones
2. Camera
3. Camera status LED
4. Display panel



# Bottom



- 1. Speakers
- 2. Service tag label
- 3. Air vents
- 4. Air vents

## LED Indicators and Characteristics

### Battery Charge and Status LED

Table 2. Battery Charge and Status LED Indicator

Power Source	LED Behavior	System Power State	Battery Charge Level
AC Adapter	Off	S0 - S5	Fully Charged
AC Adapter	Solid White	S0 - S5	< Fully Charged
Battery	Off	S0 - S5	11-100%
Battery	Solid Amber (590+/-3 nm)	S0 - S5	< 10%


- S0 (ON) - System is turned on.
- S4 (Hibernate) - The system consumes the least power compared to all other sleep states. The system is almost at an OFF state, expect for a trickle power. The context data is written to hard drive.
- S5 (OFF) - The system is in a shutdown state.

# Specifications of Latitude 3320

## Dimensions and weight

The following table lists the height, width, depth, and weight of your Latitude 3320.

**Table 3. Dimensions and weight**

Description	Values
Height:	
Front height	15.69 mm (0.62 in.)
Rear height	16.36 mm (0.64 in.)
Width	305.96 mm (12.05 in.)
Depth	204 mm (8.03 in.)
Weight	1.16 kg (2.56 lb)  <b>NOTE:</b> The weight of your computer depends on the configuration ordered and manufacturing variability.

## Processors

The following table provides the various processor options supported for Latitude 3320.

**Table 4. Processors**

Description	Option one	Option two	Option three	Option four
Processors	11 <sup>th</sup> Generation Intel Core i3-1115G4	11 <sup>th</sup> Generation Intel Core i5-1135G7	11 <sup>th</sup> Generation Intel Core i5-1145G7	11 <sup>th</sup> Generation Intel Core i7-1165G7
Wattage	15 W	15 W	15 W	15 W
Core count	2 Core	4 Core	4 Core	4 Core
Thread count	4 Thread	8 Thread	8 Thread	8 Thread
Speed	3.00 GHz to 4.10 GHz	2.40 GHz to 4.20 GHz	2.60 GHz to 4.40 GHz	2.80 GHz to 4.70 GHz
Cache	6 MB	8 MB	8 MB	12 MB
Integrated graphics	Intel UHD Graphics	Intel Iris X <sup>e</sup> Graphics	Intel Iris X <sup>e</sup> Graphics	Intel Iris X <sup>e</sup> Graphics

## Chipset

The following table provides the chipset specifications for Latitude 3320.

**Table 5. Chipset**

Description	Values
Processor	11 <sup>th</sup> Generation Intel Core i3-1115G4/Core i5-1135G7/Core i5-1145G7/Core i7-1165G7
Chipset	Intel
DRAM bus width	Dual-channel, 64 GB-bit
Flash EPROM	64 MB
PCIe bus	Up to Gen4

## Operating system


Your Latitude 3320 supports the following operating systems:

- Windows 10 Home, 64-bit
- Windows 10 Pro, 64-bit
- Ubuntu Linux 20.04 LTS, 64-bit

## Memory


The following table lists the memory specifications of your Latitude 3320.

**Table 6. Memory specifications**

Description	Values
Memory slots	Integrated on the system board  <b>NOTE:</b> You cannot upgrade the memory on your Latitude 3320.
Memory type	LPDDR4x; Single-channel; Dual-channel
Memory speed	<ul style="list-style-type: none"> <li>• 3733 MHz for Intel Core i3 processors</li> <li>• 4267 MHz for Intel Core i5/i7 processors</li> </ul>
Maximum memory configuration	16 GB
Minimum memory configuration	4 GB
Memory size per channel	4 GB, 8 GB, 16 GB
Memory configurations supported	<ul style="list-style-type: none"> <li>• 4 GB</li> <li>• 8 GB</li> <li>• 16 GB</li> </ul>

## Intel Optane memory (optional)

Intel Optane memory functions only as a storage accelerator. It neither replaces nor adds to the memory (RAM) installed on your computer.

-  **NOTE:** Intel Optane memory is supported on computers that meet the following requirements:
- 7<sup>th</sup> Generation or higher Intel Core i3/i5/i7 processor

- Windows 10 64-bit version or higher (Anniversary Update)
- Latest version of Intel Rapid Storage Technology driver

**Table 7. Intel Optane memory**

Description	Values
Type	Intel Optane Memory H20 with Solid State Storage
Interface	PCIe NVMe Gen3 x4
Connector	M.2 2280
Configurations supported	512 GB
Capacity	32 GB + 512 GB

## External ports

The following table lists the external ports on your Latitude 3320.

**Table 8. External ports**

Description	Values
USB ports	<ul style="list-style-type: none"> <li>• One USB 3.2 Gen2x2 Type-C port with DisplayPort Alt Mode 1.4/Power Delivery</li> <li>• Two USB 3.2 Gen 1 ports</li> </ul>
Audio port	One headset (headphone and microphone combo) port
Video port/ports	One HDMI 1.4b port
Media-card reader	One microSD-card 3.0
Docking port	Supported through USB Type-C
Power-adaptor port	<ul style="list-style-type: none"> <li>• 65 W AC Adapter, 4.5 mm barrel</li> <li>• 65 W AC adapter, USB-C</li> </ul>
Security-cable slot	One wedge-shaped lock slot

## Internal slots

The following table lists the internal slots of your Latitude 3320.

**Table 9. Internal slots**

Description	Values
M.2	<ul style="list-style-type: none"> <li>• One M.2 2230/M.2 2280 slot for solid-state drive/One M.2 2280 slot for Intel Optane Memory</li> <li>• One M.2 2230 slot for Wi-Fi/Bluetooth</li> </ul> <p><b>NOTE:</b> To learn how to distinguish the differences between M.2 cards, see the knowledge base article 000144170 at <a href="http://www.dell.com/support">www.dell.com/support</a>.</p>

# Wireless module

The following table lists the wireless module specifications of your Latitude 3320.

**Table 10. Wireless module specifications**

Description	Values		
Model number	Qualcomm Wi-Fi 5 QCA61x4A	Intel Wi-Fi 6 AX201	Intel Wi-Fi 6 AX210
Wireless access point	2x2 MIMO	2x2 MIMO	2x2 MIMO
Transfer rate	Up to 867 Mbps	Up to 2400 Mbps	Up to 2400 Mbps
Frequency bands supported	2.40 GHz/5.00 GHz	2.40 GHz/5.00 GHz	2.4 GHz/5.00 GHz/6.00 GHz
Wireless standards	<ul style="list-style-type: none"> <li>• Wi-Fi 802.11a/b/g</li> <li>• Wi-Fi 4 (Wi-Fi 802.11n)</li> <li>• Wi-Fi 5 (Wi-Fi 802.11ac)</li> </ul>	<ul style="list-style-type: none"> <li>• Wi-Fi 802.11a/b/g</li> <li>• Wi-Fi 4 (Wi-Fi 802.11n)</li> <li>• Wi-Fi 5 (Wi-Fi 802.11ac)</li> <li>• Wi-Fi 6 (Wi-Fi 802.11ax)</li> </ul>	<ul style="list-style-type: none"> <li>• Wi-Fi 802.11a/b/g</li> <li>• Wi-Fi 4 (Wi-Fi 802.11n)</li> <li>• Wi-Fi 5 (Wi-Fi 802.11ac)</li> <li>• Wi-Fi 6 (Wi-Fi 802.11ax)</li> </ul>
Encryption	<ul style="list-style-type: none"> <li>• 64-bit/128-bit WEP</li> <li>• AES-CCMP</li> <li>• TKIP</li> </ul>	<ul style="list-style-type: none"> <li>• 64-bit/128-bit WEP</li> <li>• AES-CCMP</li> <li>• TKIP</li> </ul>	<ul style="list-style-type: none"> <li>• 64-bit/128-bit WEP</li> <li>• AES-CCMP</li> <li>• TKIP</li> </ul>
Bluetooth	Bluetooth 5.0	Bluetooth 5.1	Bluetooth 5.2

# Audio

The following table lists the audio specifications of your Latitude 3320.

**Table 11. Audio specifications**

Description	Values	
Audio controller	Realtek ALC3204	
Stereo conversion	Supported	
Internal audio interface	High definition audio interface	
External audio interface	Universal audio port	
Number of speakers	Two	
Internal-speaker amplifier	Supported (audio codec integrated)	
External volume controls	Keyboard shortcut controls	
Speaker output:		
	Average speaker output	2 W
	Peak speaker output	2.5 W
Subwoofer output	Not supported	
Microphone	Dual-array microphone	

# Storage

This section lists the storage options on your Latitude 3320.

**Table 12. Storage specifications**

Storage type	Interface type	Capacity
M.2 2230, Class 35 solid-state drive	PCIe NVMe Gen3 x4	Up to 1 TB
M.2 2280, Class 40 solid-state drive	PCIe NVMe Gen3 x4	Up to 512 GB
One Intel Optane Memory H20 with Solid State Storage, M.2 2280	PCIe NVMe Gen3 x4	Up to 512 GB

# Keyboard

The following table lists the keyboard specifications of your Latitude 3320.

**Table 13. Keyboard specifications**

Description	Values
Keyboard type	<ul style="list-style-type: none"> <li>Standard non-backlit keyboard without fingerprint reader</li> <li>Standard non-backlit keyboard with fingerprint reader</li> <li>Standard backlit keyboard without fingerprint reader</li> <li>Standard backlit keyboard with fingerprint reader</li> </ul>
Keyboard layout	QWERTY
Number of keys	<ul style="list-style-type: none"> <li>United States and Canada: 79 keys</li> <li>United Kingdom: 80 keys</li> <li>Japan: 83 keys</li> </ul>
Keyboard size	X=19.05 mm key pitch Y=18.05 mm key pitch

# Camera

The following table provides the detailed camera specifications of Latitude 3320.

**Table 14. Camera specifications**

Description	Option one
Number of cameras	One
Type	RGB HD camera with TNR Gen 2 (Temporal Noise Reduction)
Location	Front Camera
Sensor type	CMOS sensor technology
Resolution (RGB):	
Still Image	0.92 megapixel

**Table 14. Camera specifications (continued)**

Description		Option one
	Video	1280 x 720 (HD) at 30 fps
Diagonal viewing angle, RGB		74.9°

## Touchpad

The following table provides the detailed touchpad specifications of Latitude 3320.

**Table 15. Touchpad specifications**

Description		Values
Resolution:		
	Horizontal	3184
	Vertical	1979
Dimensions:		
	Horizontal	105 mm (4.13 in.)
	Vertical	65 mm (2.56 in.)
Touchpad gestures For more information about touchpad gestures for Windows 10, see the Microsoft knowledge base article 4027871 at <a href="http://support.microsoft.com">support.microsoft.com</a> .		Yes

## Power adapter

**Table 16. Power adapter specifications**

Description	Option one	Option two
Type	65 W AC adapter, 4.5 mm barrel	65 W AC adapter, USB-C
Diameter (connector)	4.5 mm x 2.9 mm	N/A
Input voltage	100 VAC x 240 VAC	100 VAC x 240 VAC
Input frequency	50 Hz x 60 Hz	50 Hz x 60 Hz
Input current (maximum)	1.60 A/1.70 A	1.70 A
Output current (continuous)	3.34 A	<ul style="list-style-type: none"> <li>● 20 V/3.25 V</li> <li>● 15 V/3 A</li> <li>● 9 V/3 A</li> <li>● 5 V/3 A</li> </ul>
Rated output voltage	19.50 VDC	<ul style="list-style-type: none"> <li>● 20 VDC</li> <li>● 15 VDC</li> <li>● 9 VDC</li> <li>● 5 VDC</li> </ul>




**Table 16. Power adapter specifications (continued)**

Description		Option one	Option two
Temperature range:			
	Operating	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
	Storage	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)

## Battery

The following table lists the battery specifications of your Latitude 3320.

**Table 17. Battery specifications**

Description		Option one	Option two
Battery type		3-cell, 41 WHr, polymer, ExpressCharge Capable Battery	4-cell, 54 WHr, polymer, ExpressCharge Capable Battery
Battery voltage		11.25 VDC	15 VDC
Battery weight (maximum)		0.18 kg (0.40 lb)	0.23 kg (0.51 lb)
Battery dimensions:			
	Width	206.40 mm (8.12 in.)	271.90 mm (10.70 in.)
	Depth	82.00 mm (3.22 in.)	82.00 mm (3.22 in.)
	Height	5.75 mm (0.22 in.)	5.75 mm (0.22 in.)
Temperature range:			
	Operating	0°C to 35°C (32°F to 95°F)	0°C to 35°C (32°F to 95°F)
	Storage	-20°C to 65°C (-4°F to 149°F)	-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.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.
Battery charging time (approximate)  <b>NOTE:</b> 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> .		4 hours (when the computer is off)  <b>NOTE:</b> 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>	4 hours (when the computer is off)  <b>NOTE:</b> 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>
Life span (approximate)		300 cycles at room temperature	300 cycles at room temperature
ExpressCharge		Supported	Supported
User replaceable		No (Field Replaceable Unit)	No (Field Replaceable Unit)
Coin-cell battery		CR2032	CR2032

 **NOTE:**



For batteries with the ExpressCharge feature, the battery will typically have at least an 80% charge after about an hour of charging with the system off, and fully charged in about 2 hours with the system off.

Enabling ExpressCharge requires that both the computer and the battery used be ExpressCharge capable. If these requirements are not met, ExpressCharge will not be enabled.

## Display

The following table lists the Display specifications of your Latitude 3320.

**Table 18. Display specifications**

Description		Values
Type		13.3-inch, Full High Definition (FHD)
Panel technology		Wide-viewing angle (WVA)
Luminance (typical)		250 nits
Dimensions (active area):		
	Height	165.24 mm (6.51 in.)
	Width	293.76 mm (11.57 in.)
	Diagonal	337.08 mm (13.27 in.)
Native resolution		1920 x 1080
Megapixels		2.07
Color gamut		45% NTSC
Pixels Per Inch (PPI)		166
Contrast ratio (min)		600:1
Response time (max)		35 ms
Refresh rate		60 Hz
Horizontal view angle		80°
Vertical view angle		80°
Pixel pitch		0.153 x 0.153 mm
Power consumption (maximum)		3.50 W
Anti-glare vs glossy finish		Anti-glare
Touch options		No
Hinge rotation		Up to 180°
Screen to Body Ratio		86.3%

## Fingerprint reader

The following table lists the specifications of fingerprint reader supported by your Latitude 3320.

**NOTE:** The fingerprint reader is an optional offering.

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

**Table 19. Fingerprint reader specifications**

Description	Values
Sensor technology	Trans-capacitive sensing (optional)
Sensor resolution	550 DPI
Sensor area	5.49 mm x 4.47 mm
Sensor pixel size	108 x 88

## GPU—Integrated

The following table lists the integrated Graphics Processing Unit (GPU) supported by your Latitude 3320.

**Table 20. GPU—Integrated**

Controller	External display support	Memory size	Processor
Intel UHD Graphics	<ul style="list-style-type: none"> <li>One HDMI 1.4b port</li> <li>One DisplayPort Alt Mode 1.4 over USB Type-C port</li> </ul>	Shared system memory	Intel Core i3 Processors
Intel Iris X <sup>e</sup> Graphics	<ul style="list-style-type: none"> <li>One HDMI 1.4b port</li> <li>One DisplayPort Alt Mode 1.4 over USB Type-C port</li> </ul>	Shared system memory	Intel Core i5/i7 Processors

## Operating and storage environment

This table lists the operating and storage specifications of your Latitude 3320.

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

**Table 21. 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 (maximum)	3048 m (10000 ft)	10668 m (35000 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.

## Keyboard shortcuts

**NOTE:** Keyboard characters may differ depending on the keyboard language configuration. Keys 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 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 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 multi-media control, as indicated by the icon at the top of the key. For example, pressing F1 mutes the speaker (refer to the table below).

However, if the function keys F1-F12 are needed for specific software applications, multi-media functionality can be disabled by pressing **Fn + Esc**.

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

**Table 22. List of keyboard shortcuts**


Function key	Primary behavior
F1	Speaker mute
F2	Decrease volume
F3	Increase volume
F4	Play/pause
F5	Keyboard backlight (optional). <b>NOTE:</b> Non-backlight keyboards have F5 function key without the backlight icon and do not support toggle keyboard backlight function. <b>NOTE:</b> Toggle to cycle the keyboard backlight status through off, low-backlight, and high-backlight
F6	Decrease brightness
F7	Increase 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 other secondary functions.

**Table 23. Secondary behavior**

Function key	Secondary behavior
Fn + B	Pause
Fn + Ctrl + B	Break
Fn + R	System request
Fn + S	Toggle scroll lock
Fn + Esc	Toggle Fn-key lock

**Table 23. Secondary behavior (continued)**



<b>Function key</b>	<b>Secondary behavior</b>
Fn + Up arrow	Page up
Fn + Down arrow	Page down
Fn + Left arrow	Home
Fn + Right arrow	End
Fn + Right Ctrl	Shortcut/Secondary menu assigned to right Ctrl key
Fn + Shift + B	<p>Calls unobtrusive mode</p> <p><b>NOTE:</b></p> <p> The key sequence will call unobtrusive mode. The hotkey sequence will be disabled by default to prevent accidental actuation. You may enable through BIOS setup option.</p>

# 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 24. Self-help resources**

Self-help resources	Resource location
Information about Dell products and services	<a href="http://www.dell.com">www.dell.com</a>
My Dell app	
Tips	
Contact Support	In Windows search, type <code>Contact Support</code> , and press Enter.
Online help for operating system	<a href="http://www.dell.com/support/windows">www.dell.com/support/windows</a>
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 <a href="http://www.dell.com/support">www.dell.com/support</a> .  For more information on how to find the Service Tag for your computer, see <a href="#">Locate the Service Tag on your computer</a> .
Dell knowledge base articles for a variety of computer concerns	<ol style="list-style-type: none"> <li>1. Go to <a href="http://www.dell.com/support">www.dell.com/support</a>.</li> <li>2. On the menu bar at the top of the Support page, select <b>Support &gt; Knowledge Base</b>.</li> <li>3. In the Search field on the Knowledge Base page, type the keyword, topic, or model number, and then click or tap the search icon to view the related articles.</li> </ol>

## Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see [www.dell.com/contactdell](http://www.dell.com/contactdell).

 **NOTE:** Availability varies by country/region and product, and some services may not be available in your country/region.

 **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.