Latitude 7330

Technical Guidebook

D∕ELL 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.

Contents

Views of Latitude 7330

Right

1. Thunderbolt 4.0 port with Power Delivery and DisplayPort 1.4 Alt mode
2. USB 3.2 Gen 1 port with PowerShare
3. HDMI 2.0 port
4. Wedge-shaped lock slot

Left
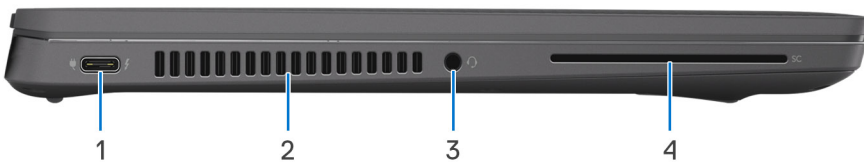
1. Thunderbolt 4.0 port with Power Delivery and DisplayPort 1.4 Alt mode
2. Air vents
3. Universal audio port
4. Smart-card reader slot (optional)

Top
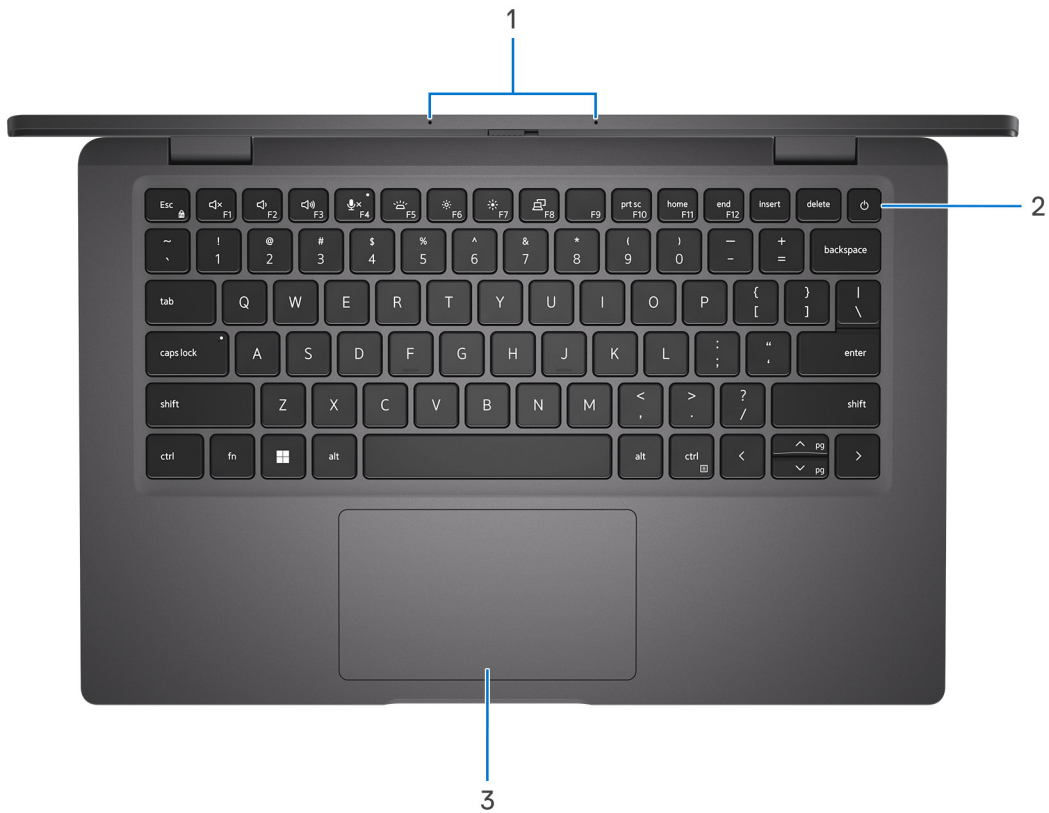
1. Microphone array
2. Power button with optional fingerprint reader
3. Touchpad

Front
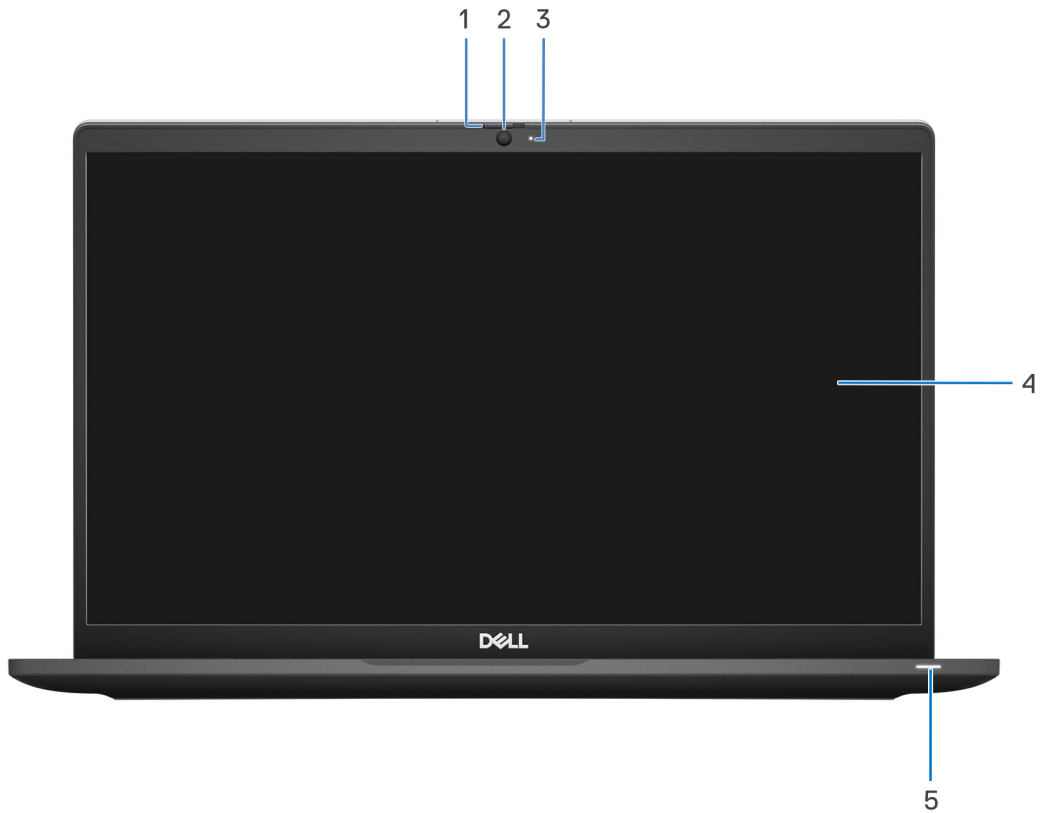
Figure 1. Laptop

1. Camera shutter
2. RGB camera
3. Camera indicator LED
4. LCD panel
5. Battery indicator/diagnostic LED
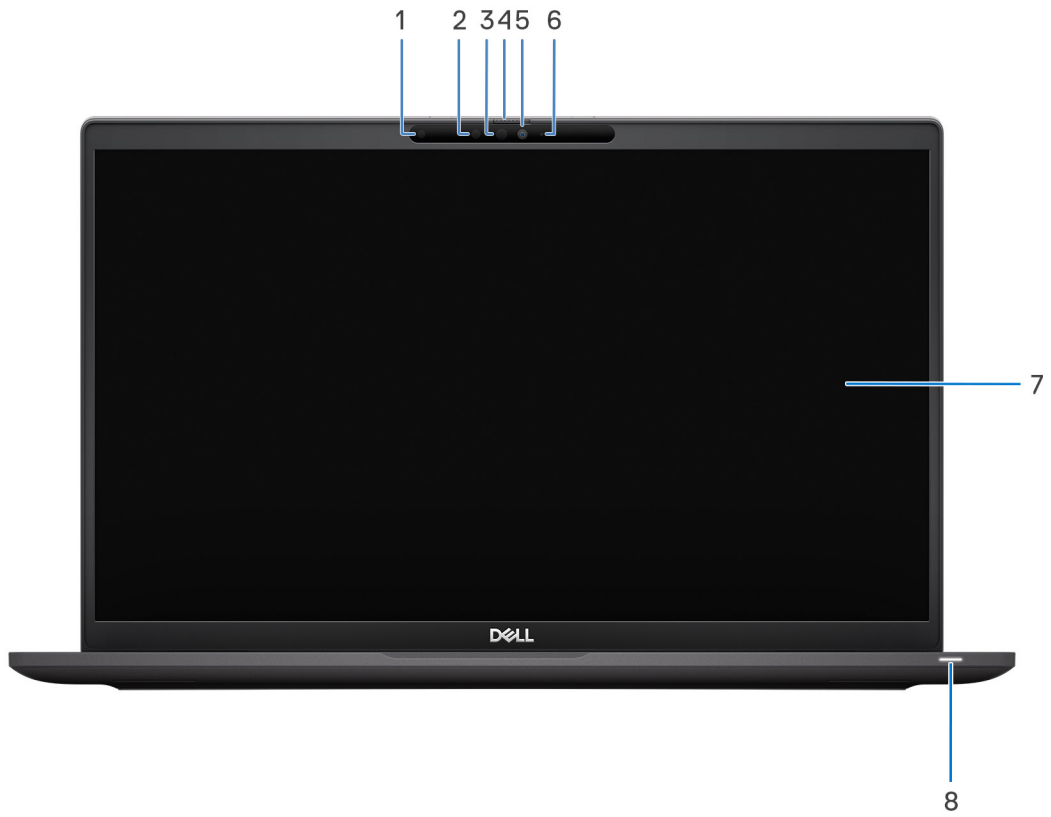
Figure 2. 2-in-1

1. Ambient Light Sensor (ALS)
2. IR emitter (optional)
3. IR camera (optional)
4. Camera shutter
5. RGB camera
6. Camera indicator LED
7. LCD panel
8. Battery indicator/diagnostic LED

Bottom
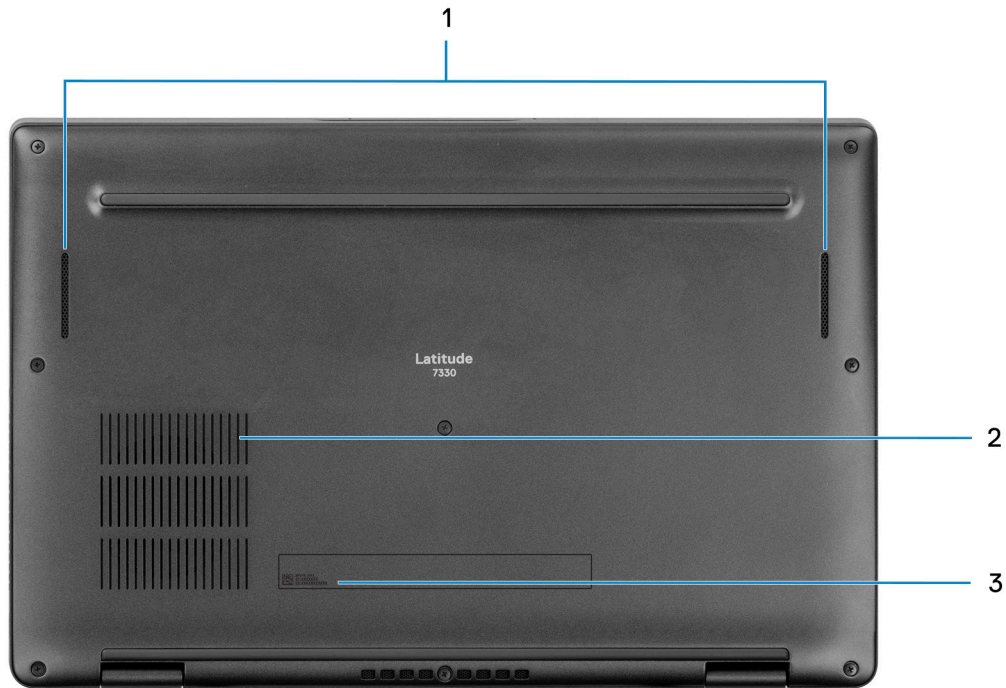
1. Speakers
2. Air vents
3. Service Tag and regulatory labels

Service Tag

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

MFGYR: XXXX
ST:XXXXXXX
EX:XXXXXXXXXXX

Modes

ⓘ **NOTE:** The following modes are applicable only to Latitude 7330 2-in-1 computers.

Notebook

Tablet

Stand

Tent

Battery charge and status light

The following table lists the battery charge and status light behavior of your Latitude 7330.

Table 1. Battery charge and status light behavior

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 7330

Dimensions and weight

The following table lists the height, width, depth, and weight of your Latitude 7330.

Table 2. Dimensions and weight

Description		Clamshell			2-in-1
		Carbon Fiber	**Aluminum Titan Gray**	**Magnesium Alloy**	**Aluminum Titan Gray**
Height:					
	Front height	16.96 mm (0.67 in.)	16.71 mm (0.657 in.)	16.96 mm (0.67 in.)	16.40 mm (0.65 in.)
	Rear height	18.36 mm (0.72 in.)	18.00 mm (0.71 in.)	18.36 mm (0.72 in.)	18.60 mm (0.73 in.)
Width		306.50 mm (12.07 in.)	306.50 mm (12.07 in.)	306.50 mm (12.07 in.)	306.50 mm (12.07 in.)
Depth		199.95 mm (7.87 in.)	199.95 mm (7.87 in.)	199.95 mm (7.87 in.)	199.95 mm (7.87 in.)
Weight (minimum)		1.13 kg (2.50 lb) (i) **NOTE:** The weight of your computer depends on the configuration ordered and manufacturing variability.	1.21 kg (2.67 lb) (i) **NOTE:** The weight of your computer depends on the configuration ordered and manufacturing variability.	0.967 kg (2.13 lb) (i) **NOTE:** The weight of your computer depends on the configuration ordered and manufacturing variability.	1.36 kg (3.00 lb) (i) **NOTE:** The weight of your computer depends on the configuration ordered and manufacturing variability.

Processor

The following table lists the details of the processors supported by your Latitude 7330.

Table 3. Processor

Description	Option one	Option two	Option three	Option four
Processor type	12th Generation Intel Core i5-1235U	12th Generation Intel Core i7-1255U	12th Generation Intel vPro Enterprise with Intel Core i5-1245U	12th Generation Intel vPro Enterprise with Intel Core i7-1265U
Processor wattage	15 W	15 W	15 W	15 W
Processor core count	10	10	10	10
Processor thread count	12	12	12	12
Processor speed	Up to 4.40 GHz	Up to 4.70 GHz	Up to 4.40 GHz	Up to 4.80 GHz

Table 3. Processor (continued)

Description	Option one	Option two	Option three	Option four
Processor cache	12 MB	12 MB	12 MB	12 MB
Integrated graphics	Intel Iris Xe Graphics	Intel Iris Xe Graphics	Intel Iris Xe Graphics	Intel Iris Xe Graphics

Chipset

The following table lists the details of the chipset supported by your Latitude 7330.

Table 4. Chipset

Description	Values
Chipset	Intel PCH-LP
Processor	12th Generation Intel Core i5/i7 processors
DRAM bus width	Dual channel, 64-bit
Flash EPROM	32 MB + 16 MB
PCIe bus	Up to Gen 4.0

Operating system

Your Latitude 7330 supports the following operating systems:

- Windows 11 Pro
- Windows 11 Home
- Windows 11 Pro Downgrade (Windows 10 image factory installed)
- Ubuntu Linux 20.04 LTS, 64-bit
  - (i) **NOTE:** Ubuntu is not available for 2-in-1 computers.

Memory

The following table lists the memory specifications of your Latitude 7330.

Table 5. Memory specifications

Description	Values
Memory	Integrated on the system board (i) **NOTE:** You cannot upgrade the memory on your Latitude 7330
Memory type	DDR4
Memory speed	3200 MHz
Maximum memory configuration	32 GB
Minimum memory configuration	8 GB
Memory size	8 GB, 16 GB and 32 GB

Table 5. Memory specifications (continued)

Description	Values
Memory configurations supported	8 GB, DDR4, 3200 MHz, integrated, dual-channel 16 GB, DDR4, 3200 MHz, integrated, dual-channel 32 GB, DDR4, 3200 MHz, integrated, dual-channel

External ports

The following table lists the external ports on your Latitude 7330.

Table 6. External ports

Description	Values
USB ports	- Two USB Type-C Thunderbolt 4.0 ports with Power Delivery and DisplayPort 1.4 Alt mode - One USB 3.2 Gen 1 port with PowerShare
Audio port	One universal audio port
Video port/ports	One HDMI 2.0 port
SIM-card slot	One microSIM-card slot (optional)
Power-adapter port	Power Delivery (PD) supported by two USB Type-C Thunderbolt 4.0 ports
Security-cable slot	One wedge-shaped lock slot

Internal slots

The following table lists the internal slots of your Latitude 7330.

Table 7. Internal slots

Description	Values
M.2	- One M.2 3042 Key-B slot for WWAN (optional) - One M.2 2230/2280 slot for solid-state drive (i) **NOTE:** Clamshell systems shipped with Magnesium Alloy chassis support only M.2 2230 solid-state drive. (i) **NOTE:** To learn more about the features of different types of M.2 cards, search in the Knowledge Base Resource at www.dell.com/support.

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module supported on your Latitude 7330.

Table 8. Wireless module specifications

Description	Values
Model number	Intel AX211

Table 8. Wireless module specifications (continued)

Description	Values
	ⓘ **NOTE:** Built on system board and not replaceable as a standalone part
Transfer rate	Up to 2400 Mbps
Frequency bands supported	2.40 GHz/5 GHz/6 GHz
Wireless standards	- WiFi 802.11a/b/g - Wi-Fi 4 (WiFi 802.11n) - Wi-Fi 5 (WiFi 802.11ac) - Wi-Fi 6E (WiFi 802.11ax)
Encryption	64-bit/128-bit WEP - AES-CCMP - TKIP
Bluetooth	Bluetooth 5.2

WWAN module

The following table lists the Wireless Wide Area Network (WWAN) module supported on your Latitude 7330.

WWAN module specifications

Description	Option one	Option two
Model number	Qualcomm Snapdragon X20 LTE-A CAT16 (DW5821e)	Qualcomm Snapdragon X20 LTE-A CAT9 (DW5829e)
Transfer rate	Up to 1 Gbps DL/150 Mbps UL (Cat 16)	Up to 450 Mbps DL/50 Mbps UL (Cat 9)
Frequency bands supported	- LTE (1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 28, 29, 30, 32, 38, 39, 40, 41, 42, 43, 46, 66) - HSPA+ (1, 2, 4, 5, 6, 8, 9, 19)	- LTE (1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 28, 29, 30, 32, 38, 39, 40, 41, 66) - HSPA+ (1, 2, 4, 5, 8)
Wireless standards	- LTE FDD/TDD - WCDMA/HSPA+	- LTE FDD/TDD - WCDMA/HSPA+
Encryption	AECS	AECS
Global Navigation Satellite System (GNSS)	GPS/GLONASS/Beidou/Galileo	GPS/GLONASS/Beidou/Galileo
ⓘ **NOTE:** For instructions on how to find your computer's IMEI (International Mobile Station Equipment Identity) number, search in the Knowledge Base Resource at www.dell.com/support.		

Audio

The following table lists the audio specifications of your Latitude 7330.

Table 9. Audio specifications

Description		Values
Audio controller		Realtek ALC3281-CG
Stereo conversion		Supported
Internal audio interface		High definition audio interface
External audio interface		One universal audio port
Number of speakers		Two
Internal-speaker amplifier		Not supported
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 microphones

Storage

This section lists the storage options on your Latitude 7330.

Your computer supports the following storage configurations:
- One M.2 2230/2280 solid-state drive
  - (i) **NOTE:** Clamshell systems shipped with Magnesium Alloy chassis support only M.2 2230 solid-state drive.

The M.2 2230/2280 solid-state drive is the primary drive of your computer.

Table 10. Storage specifications

Storage type	Interface type	Capacity
M.2 2230, Class 35 solid-state drive	PCIe NVMe Gen3 x4	Up to 512 GB
M.2 2230, Class 35 solid-state drive	PCIe NVMe Gen4 x4	Up to 512 GB
M.2 2280, Class 40 solid-state drive	PCIe NVMe Gen4 x4	Up to 1 TB
M.2 2230, Class 35 solid-state drive, self-encrypting drive	PCIe NVMe Gen3 x4	256 GB
M.2 2230, Class 35 solid-state drive, self-encrypting drive	PCIe NVMe Gen4 x4	256 GB
M.2 2280, Class 40 solid-state drive, self-encrypting drive	PCIe NVMe Gen4 x4	512 GB

Keyboard

The following table lists the keyboard specifications of your Latitude 7330.

Table 11. Keyboard specifications

Description	Values
Keyboard type	- Standard backlit keyboard - Standard non-backlit keyboard
Keyboard layout	QWERTY/KANJI
Number of keys	- United States and Canada: 79 keys - United Kingdom: 80 keys - Japan: 83 keys
Keyboard size	X = 18.05 mm key pitch Y = 18.05 mm key pitch
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. To type the alternate character, press Shift and the desired key. To perform secondary functions, press Fn and the desired key. (i) **NOTE:** You can define the primary behavior of the function keys (F1–F12) changing **Function Key Behavior** in BIOS setup program.

Camera

The following table lists the camera specifications of your Latitude 7330.

Table 12. Camera specifications

Description		Option one	Option two	Option three	Option four
Number of cameras		There is one camera option: HD RGB camera	There is one camera option: HD RGB camera	There are two camera options: - FHD RGB camera - IR camera	There are two camera options: - FHD RGB camera - IR camera
Camera type		2.7 mm HD RGB webcam	6 mm HD RGB webcam	3.25 mm FHD RGB/IR webcam with camera proximity detection and ALS	6 mm FHD RGB/IR webcam with camera proximity detection and ALS
Camera location		Front camera	Front camera	Front camera	Front camera
Camera sensor type		CMOS sensor technology	CMOS sensor technology	CMOS sensor technology	CMOS sensor technology
Camera resolution:					
	Still image	0.92 megapixel	0.92 megapixel	2.00 megapixel	2.00 megapixel
	Video	1280 x 720 (HD) at 30 fps	1280 x 720 (HD) at 30 fps	1920 x 1080 (FHD) at 30 fps	1920 x 1080 (FHD) at 30 fps

Table 12. Camera specifications (continued)

Description		Option one	Option two	Option three	Option four
Infrared camera resolution:					
	Still image	NA	NA	0.23 megapixel	0.23 megapixel
	Video	NA	NA	640 x 360 (VGA) at 15 fps	640 x 360 (VGA) at 15 fps
Diagonal viewing angle:					
	Camera	74.9 degrees	78.6 degrees	78.6 degrees	87.6 degrees
	Infrared camera	NA	NA	87.6 degrees	87.6 degrees

Touchpad

The following table lists the touchpad specifications of your Latitude 7330.

Table 13. Touchpad specifications

Description		Values
Touchpad resolution:		
	Horizontal	>= 300 dpi
	Vertical	>= 300 dpi
Touchpad dimensions:		
	Horizontal	105 mm (4.13 in.)
	Vertical	60 mm (2.36 in.)
Touchpad gestures		For more information about touchpad gestures available on Windows, see the Microsoft knowledge base article at support.microsoft.com.

Power adapter

The following table lists the power adapter specifications of your Latitude 7330.

Table 14. Power adapter specifications

Description		Option one	Option two	Option three
Type		60 W AC adapter, USB-C, Small form factor	65 W AC adapter, USB-C	90 W AC adapter, USB-C
Power-adapter dimensions:				
	Height	22.00 mm (0.866 in.)	28.00 mm (1.10 in.)	22.00 mm (0.87 in.)
	Width	66.00 mm (2.598 in.)	112.00 mm (4.41 in.)	130.00 mm (5.12 in.)
	Depth	55.00 mm (2.165 in.)	51.00 mm (2.01 in.)	66.00 mm (2.60 in.)
Weight		0.105 kg (0.231 lb)	0.201 kg (0.443 lb)	0.291 g (0.641 lb)
Input voltage		100 VAC – 240 VAC	100 VAC – 240 VAC	100 VAC – 240 VAC

Table 14. Power adapter specifications (continued)

Description	Option one	Option two	Option three
Input frequency	50 Hz – 60 Hz	50 Hz – 60 Hz	50 Hz – 60 Hz
Input current (maximum)	1.70 A	1.70 A	1.50 A
Output current (continuous)	5 V/3 A 9 V/3 A 15 V/3 A 20 V/3 A	5 V/3 A 9 V/3 A 15 V/3 A 20 V/3.25 A	5 V/3 A 9 V/3 A 15 V/3 A 20 V/4.50 A
Rated output voltage	5 VDC 9 VDC 15 VDC 20 VDC	5 VDC 9 VDC 15 VDC 20 VDC	5 VDC 9 VDC 15 VDC 20 VDC
Temperature range:			
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	-20°C to 70°C (-4°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.**

Battery

The following table lists the battery specifications of your Latitude 7330.

ⓘ **NOTE:** 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.

Table 15. Battery specifications

Description	Option one	Option two
Battery type	3-cell, 41 Wh "smart" lithium-ion	4-cell, 58 Wh "smart" lithium-ion
Battery voltage	11.25 VDC	15.20 VDC
Battery weight (maximum)	0.19 kg (0.41 lb)	0.24 kg (0.54 lb)
Battery dimensions:		
Height	5.70 mm (0.22 in.)	5.70 mm (0.22 in.)
Width	89.40 mm (3.52 in.)	89.40 mm (3.52 in.)
Depth	205.10 mm (8.07 in.)	242.00 mm (9.53 in.)
Temperature range:		
Operating	- Charge: 0°C to 45°C (32°F to 113°F) - Discharge: 0°C to 70°C (32°F to 158°F)	- Charge: 0°C to 45°C (32°F to 113°F) - Discharge: 0°C to 70°C (32°F to 158°F)

Table 15. Battery specifications (continued)

Description		Option one	Option two
	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) ⓘ **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 www.dell.com.		• ExpressCharge Boost (0% up to 35%): 20 minutes • Express charge: 2 hours • Standard charge: 3 hours	• ExpressCharge Boost (0% up to 35%): 20 minutes • Express charge: 2 hours • Standard charge: 3 hours
Coin-cell battery		Rechargeable RTC coin-cell battery	Rechargeable RTC coin-cell battery

⚠ **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.**

Display

The following table lists the display specifications of your Latitude 7330.

Table 16. Display specifications

Description	Clamshell				2-in-1
	Option one	Option two	Option three	Option four	Option one
Display type	13.3-inch, Full High Definition (FHD)	13.3-inch, Full High Definition (FHD), Super Low Power (SLP), ComfortView Plus	13.3-inch, Full High Definition (FHD)	13.3-inch, Full High Definition (FHD), Super Low Power (SLP), ComfortView Plus, Ultralight	13.3-inch, Full High Definition (FHD), Corning Gorilla Glass 6 DXC
Display-panel technology	Thin Film Transistor (TFT), Wide-viewing angle (WVA)	Thin Film Transistor (TFT), Wide-viewing angle (WVA)	Thin Film Transistor (TFT), Wide-viewing angle (WVA)	Thin Film Transistor (TFT), Wide-viewing angle (WVA)	Thin Film Transistor (TFT), Wide-viewing angle (WVA)
Display-panel dimensions (active area):					
Height	165.24 mm (6.51 in.)	165.24 mm (6.51 in.)	165.24 mm (6.51 in.)	165.24 mm (6.51 in.)	165.24 mm (6.51 in.)
Width	293.76 mm (11.57 in.)	293.76 mm (11.57 in.)	293.76 mm (11.57 in.)	293.76 mm (11.57 in.)	293.76 mm (11.57 in.)
Diagonal	337.08 mm (13.27 in.)	337.08 mm (13.27 in.)	337.08 mm (13.27 in.)	337.08 mm (13.27 in.)	337.08 mm (13.27 in.)

Table 16. Display specifications (continued)

Description	Clamshell				2-in-1
	Option one	Option two	Option three	Option four	Option one
Display-panel native resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Luminance (typical)	250 nits	400 nits	300 nits	400 nits	270 nits
Megapixels	2.07	2.07	2.07	2.07	2.07
Color gamut (typical)	45% NTSC	100% sRGB	72% NTSC	100% sRGB	100% sRGB
Pixels Per Inch (PPI)	166	166	166	166	166
Contrast ratio (typical)	800:1	1000:1	700:1	600:1	1000:1
Response time (maximum)	35 ms	35 ms	35 ms	35 ms	35 ms
Refresh rate	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz
Horizontal view angle	• 80/80 +/- degrees (min.) • 85/85 +/- degrees (typ.)	• 80/80 +/- degrees (min.) • 85/85 +/- degrees (typ.)	• 80/80 +/- degrees (min.) • 85/85 +/- degrees (typ.)	• 80/80 +/- degrees (min.) • 85/85 +/- degrees (typ.)	• 80/80 +/- degrees (min.) • 85/85 +/- degrees (typ.)
Vertical view angle	• 80/80 +/- degrees (min.) • 85/85 +/- degrees (typ.)	• 80/80 +/- degrees (min.) • 85/85 +/- degrees (typ.)	• 80/80 +/- degrees (min.) • 85/85 +/- degrees (typ.)	• 80/80 +/- degrees (min.) • 85/85 +/- degrees (typ.)	• 80/80 +/- degrees (min.) • 85/85 +/- degrees (typ.)
Pixel pitch	0.153 mm x 0.153 mm	0.153 mm x 0.153 mm	0.153 mm x 0.153 mm	0.153 mm x 0.153 mm	0.153 mm x 0.153 mm
Power consumption (maximum)	3.50 W	2.52 W	4.10 W	2.52 W	2.29 W
Anti-glare vs glossy finish	Anti-glare	Anti-glare	Anti-glare	Anti-glare	(DXC) Anti-reflection/Anti-smudge coating
Touch options	Non-touch	Non-touch	Touch	Non-touch	Touch
Stylus	NA	NA	NA	NA	Optional Wacom pen support

Fingerprint reader (optional)

The following table lists the specifications of the optional fingerprint reader of your Latitude 7330.

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

Table 17. Fingerprint reader specifications

Description	Values
Fingerprint-reader sensor technology	Capacitive
Fingerprint-reader sensor resolution	500 dpi
Fingerprint-reader sensor pixel size	108 x 88

Sensor

The following table lists the sensor of your Latitude 7330.

Table 18. Sensor

Sensor support
Ambient Light Sensor
IR User Proximity Detection
Digital Compass (Magnetometer)
Accelerometer
Gyrometer
Adaptive Thermal Performance (Laptop vs. Desktop mode) requires Gyrometer/Accelerometer   ⓘ **NOTE:** This is for thermal only.
Proximity for SAR compliance (for the WWAN module) Near Field Proximity Sensor
Hall Effect Sensor

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Latitude 7330.

Table 19. GPU—Integrated

Controller	Memory size	Processor
Intel Iris Xe Graphics	Shared system memory	12th Generation Intel Core i5/i7 processors

Multiple display support matrix

The following table lists the multiple display support matrix for your Latitude 7330.

Table 20. 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
Intel Iris Xe Graphics	Not applicable	4	3

Hardware security

The following table lists the hardware security of your Latitude 7330.

Table 21. Hardware security

Hardware security
Trusted Platform Module (TPM) 2.0 discrete
FIPS 140-2 certification for TPM
Trusted Computing Group (TCG) Certification for TPM
Contacted smart card and Control vault 3
Contactless smart card, NFC, and Control vault 3
SED SSD NVMe, SSD and HDD (Opal and non-Opal) per SDL
Fingerprint reader in power button tied to Control vault 3
One wedge-shaped lock slot
SED (Opal 2.0 only - PCIe Interface)
Windows Hello - Fingerprint Reader (optional)
Mechanical privacy shutter for camera (only for metal laptops)

Smart-card reader

Contactless smart-card reader

This section lists the contactless smart-card reader specifications of your Latitude 7330.

Table 22. Contactless smart-card reader specifications

Title	Description	Dell ControlVault 3 contactless smart-card reader with NFC
Felica Card Support	Reader and software capable of supporting Felica contactless cards	Yes
ISO 14443 Type A Card Support	Reader and software capable of supporting ISO 14443 Type A contactless cards	Yes
ISO 14443 Type B Card Support	Reader and software capable of supporting ISO 14443 Type B contactless cards	Yes
ISO/IEC 21481	Reader and software capable of supporting ISO/IEC 21481 compliant contactless cards and tokens	Yes
ISO/IEC 18092	Reader and software capable of supporting ISO/IEC 21481 compliant contactless cards and tokens	Yes
ISO 15693 Card Support	Reader and software capable of supporting ISO15693 contactless cards	Yes
NFC Tag Support	Supports reading and processing of NFC compliant tag information	Yes

Table 22. Contactless smart-card reader specifications (continued)

Title	Description	Dell ControlVault 3 contactless smart-card reader with NFC
NFC Reader Mode	Support for NFC Forum Defined Reader mode	Yes
NFC Writer Mode	Support for NFC Forum Defined Writer mode	Yes
NFC Peer-to-Peer Mode	Support for NFC Forum Defined Peer to Peer mode	Yes
EMVCo Compliant	Compliant with EMVCO smart card standards as posted to www.emvco.com	Yes
EMVCo Certified	Formally certified based on EMVCO smart card standards	Yes
NFC Proximity OS Interface	Enumerates NFP (Near Field Proximity) device for OS to utilize	Yes
PC/SC OS interface	Personal Computer/Smart Card specification for integration of hardware readers into personal computer environments	Yes
CCID driver compliance	Common driver support for Integrated Circuit Card Interface Device for OS level drivers	Yes
Windows Certified	Device certified by Microsoft WHCK	Yes
Dell ControlVault support	Device connects to Dell ControlVault for usage and processing	Yes
FIDO2 compliance	Dell ControlVault 3 Smart-card reader is compliant with the FIDO SPEC	Yes

(i) **NOTE:** 125 KHz proximity cards are not supported.

Table 23. Supported cards

Manufacturer	Card
HID	jCOP readertest3 A card (14443a)
	1430 1L
	DESFire D8H
	iClass (Legacy)
	iClass SEOS
NXP/Mifare	Mifare DESFire 8K White PVC Cards
	Mifare Classic 1K White PVC Cards
	NXP Mifare Classic S50 ISO Card
G&D	idOnDemand - SCE3.2 144K
	SCE6.0 FIPS 80K Dual+ 1 K Mifare
	SCE6.0 nonFIPS 80K Dual+ 1 K Mifare
	SCE6.0 FIPS 144K Dual + 1K Mifare
	SCE6.0 nonFIPS 144K Dual + 1 K Mifare
	SCE7.0 FIPS 144K

Table 23. Supported cards (continued)

Manufacturer	Card
Oberthur	idOnDemand - OCS5.2 80K
	ID-One Cosmo 64 RSA D V5.4 T=0 card

Contacted smart-card reader

The following table lists the contacted smart-card reader specifications of your Latitude 7330.

Table 24. Contacted smart-card reader specifications

Title	Description	Dell ControlVault 3 smart-card reader
ISO 7816 -3 Class A Card Support	Reader capable of reading 5V powered smart mcard	Yes
ISO 7816 -3 Class B Card Support	Reader capable of reading 3V powered smart card	Yes
ISO 7816 -3 Class C Card support	Reader capable of reading 1.8V powered smart card	Yes
ISO 7816-1 Compliant	Specification for the reader	Yes
ISO 7816 -2 Compliant	Specification for smart card device physical characteristics (size, location of connection points, etc.)	Yes
T=0 support	Cards support character level transmission	Yes
T=1 support	Cards support block level transmission	Yes
EMVCo Compliant	Compliant with EMVCo (for electronic payment standards) smart card standards as posted to www.emvco.com	Yes
EMVCo Certified	Formally certified based on EMVCO smart card standards	Yes
PC/SC OS interface	Personal Computer/Smart Card specification for integration of hardware readers into personal computer environments	Yes
CCID driver compliance	Common driver support for Integrated Circuit Card Interface Device for OS level drivers.	Yes
Windows Certified	Device certified by WHCK	Yes
FIPS 201 (PIV/HSPD-12) Compliant via GSA	Device compliant with FIPS 201/PIV/HSPD-12 requirements	Yes
FIDO2 compliance	Dell ControlVault 3 Smart-card reader is compliant with the FIDO SPEC	Yes

Operating and storage environment

This table lists the operating and storage specifications of your Latitude 7330.

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

Table 25. 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 (-49.899 ft to 10000 ft)	-15.2 m to 10668 m (-49.899 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 user environment.

† Measured using a 2 ms half-sine pulse.

Engineering specifications

Wireless module

Intel AX211, 2x2 MIMO, 2400 Mbps, 2.4/5/6 GHz, Wi-Fi 6E (WiFi 802.11ax), Bluetooth 5.2

The following table lists the Intel AX211 specifications.

Table 26. Intel AX211 specifications

Host interface	CNVi3 (Connectivity Integration 3rd generation)
Network standard	IEEE 802.11a/b/g/n/ac/ax, 160MHz channel use, MU-MIMO, new 6GHz band
Wi-Fi Alliance certifications	Wi-Fi CERTIFIED 6, Wi-Fi CERTIFIED a/b/g/n/ac,WMM, WMM-Power Save, WPA2, WPA3, WPS, PMF,Wi-Fi Direct, Wi-Fi Agile Multiband ⓘ **NOTE:** Other names and brands may be claimed as the property of others.
Operating frequency bands	● 2.4 GHz ● 5 GHz ● 6 GHz
Data rate	● 2.4 GHz 40M: Up to 574 Mbps ● 5/6 GHz 80M: Up to 1.2 Gbps ● 5/6 GHz 160M: Up to 2.4 Gbps
Power consumption	Optimized power modes (sleep states) reduce power consumption during periods of inactivity
Security methods	● WPA2 Personal and Enterprise ● WPA3
Authentication protocols	● 802.1X EAP-TLS ● EAP-TTLS/MSCHAPv2 ● PEAPv0 -MSCHAPv2 (EAP-SIM, EAP-AKA, EAP-AKA)
Encryption	● 64-bit and 128-bit WEP ● TKIP ● 128-bit AES-CCMP ● 256-bit AES-GCMP
Product safety	● UL ● C-UL ● CB (IEC60950-1)
Management capabilities alerting	Support for Intel AMT
Government compliance	● FIPS 140-2 ● FISMA
Client utility	Intel PRO/Set wireless software v22 and later

Table 26. Intel AX211 specifications (continued)

Antenna diversity	Supported
Radio On/Off	Supported
Roaming	Support seamless roaming between access points
Wake on wireless	Supported
Wireless display	Native Miracast support by Windows
Wireless PAN standard	- Dual Mode Bluetooth 5.2 - BLE
Bluetooth data rates	Up to 3 Mbps
Bluetooth operating frequency bands	2.4 GHz
Bluetooth profiles supported	Support for Microsoft Inbox Bluetooth profiles in Windows
Bluetooth data encryption	128-bit encryption
Bluetooth output power	Power class 1
Operating temperature	0°C to + 50°C (Full performance at shield temperatures up to 80°C)
Storage temperature	-40°C to +70°C
Humidity	Up to 90% RH non-condensing (at temperatures of 25° C to 35° C)

WWAN module

Qualcomm Snapdragon X20 Global Gigabit LTE, CAT 16, DW5821e

The following table lists the Qualcomm Snapdragon X20 Global Gigabit LTE, CAT 16, DW5821e specifications.

Table 27. Qualcomm Snapdragon X20 Global Gigabit LTE, CAT 16, DW5821e specifications

Form factor	M.2 3042 Key-B single side
Host interface	USB 3.0/2.0
Network standard	- LTE FDD/TDD - WCDMA/HSPA+ - GPS/GLONASS/ Beidou /Galileo
Transfer rate	Up to 1 Gbps DL/150 Mbps UL (Cat 16)
Operating frequency bands	- LTE (1,2,3,4,5,7,8,12,13,14,17,18,19,20,25,26,28,29,30,32,38,39,40,41,42,43,46,66) - HSPA+ (1, 2, 4, 5, 6, 8, 9, 19)
Power supply	DC 3.135 V to 4.4 V, Typical 3.3 V
SIM card	Supported through external SIM slot
eSIM with Dual SIM (DSSA)	Supported ⓘ NOTE: The availability of eSIM functionality embedded on the module is dependent on the region and carrier requirements.
Antenna diversity	Supported
Radio On/Off	Supported

Table 27. Qualcomm Snapdragon X20 Global Gigabit LTE, CAT 16, DW5821e specifications (continued)

Wake on wireless	Supported
Normal operating temperature	-30°C to +70°C
Extended operating temperature	-40°C to +85°C
Antenna connector	- WWAN Main Antenna x 1 - WWAN Diversity Antenna x 1 4 x 4 MIMO Antenna x 2

Qualcomm Snapdragon X20 Global Gigabit LTE, CAT 9, DW5829e

The following table lists the Qualcomm Snapdragon X20 Global Gigabit LTE, CAT 9, DW5829e specifications.

Table 28. Qualcomm Snapdragon X20 Global Gigabit LTE, CAT 9, DW5829e specifications

Form factor	M.2 3042 Key-B single side
Host interface	USB 3.0/2.0
Network standard	- LTE FDD/TDD - WCDMA/HSPA+ - GPS/GLONASS/ Beidou /Galileo
Transfer rate	Up to 450 Mbps DL/75 Mbps UL (Cat 9)
Operating frequency bands	- LTE (1,2,3,4,5,7,8,12,13,14,17,18,19,20,25,26,28,29,30,32,38,39, 40,41,42,43,46,66) - HSPA+ (1, 2, 4, 5, 6, 8, 9, 19)
Power supply	DC 3.135 V to 4.4 V, Typical 3.3 V
SIM card	Supported through external SIM slot
eSIM with Dual SIM (DSSA)	Supported ⓘ **NOTE:** The availability of eSIM functionality embedded on the module is dependent on the region and carrier requirements.
Antenna diversity	Supported
Radio On/Off	Supported
Wake on wireless	Supported
Normal operating temperature	-30°C to +70°C
Extended operating temperature	-40°C to +85°C
Antenna connector	- WWAN Main Antenna x 1 - WWAN Diversity Antenna x 1 4 x 4 MIMO Antenna x 2

GPU—Integrated

Intel Iris Xᵉ Graphics

The following table lists the Intel Iris Xᵉ Graphics specifications.

Table 29. Intel Iris Xᵉ Graphics specifications

Bus type	Integrated graphics ⓘ **NOTE:** Intel Iris Xᵉ Graphics uses the computers memory as video memory.
Memory type	DDR4
Memory interface	N/A (Unified Memory Architecture)
Estimated maximum power consumption (TDP)	15 W, included in the CPU power
Maximum color depth	10 bits
Maximum vertical refresh rate	Up to 120 Hz ⓘ **NOTE:** The refresh rate depends on the resolution.
External ports	HDMI 2.0 port, DisplayPort over USB Type-C
Multiple display support	Up to 4 displays including laptop display

Video port and resolution matrix

The following table lists the Video port and resolution matrix of your Latitude 7330.

Table 30. Video port and resolution matrix

Port type	USB Type-C Thunderbolt 4 with DisplayPort 1.4	HDMI-OUT port-HDMI 2.0
Maximum resolution —single display	4096 x 2304 @ 60 Hz	4096 x 2160 @ 30 Hz
Maximum resolution —dual MST	Up to 2 x 4k @ 60Hz HDR	Not applicable
Maximum resolution —triple MST	Up to 2 x 4k @ 60Hz SDR, 1 x 1080p @ 60 Hz display concurrent.	Not applicable

Storage

M.2 2230, 256 GB, PCIe NVMe Gen3 x4, Class 35 SSD

The following table lists the M.2 2230, 256 GB SSD specifications.

Table 31. 256 GB SSD specifications

Capacity	256 GB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22.00 mm (0.87 in.)
Depth (approximate)	30.00 mm (1.18 in.)

Table 31. 256 GB SSD specifications (continued)

Interface type	PCIe Gen3
Speed (maximum)	32 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	500,118,192
Power source	
Power consumption (reference only)	● Idle: 5 mW (PS4) ● Active: 3.50 W
Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
Environmental non-operating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

M.2 2230, 512 GB, PCIe NVMe Gen3 x4, Class 35 SSD

The following table lists the M.2 2230, 512 GB SSD specifications.

Table 32. 512 GB SSD specifications

Capacity	512 GB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22.00 mm (0.87 in.)
Depth (approximate)	30.00 mm (1.18 in.)
Interface type	PCIe Gen3
Speed (maximum)	32 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	1,000,215,216
Power source	
Power consumption (reference only)	● Idle: 5 mW (PS4) ● Active: 3.50 W
Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
Environmental non-operating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

M.2 2230, 256 GB, PCIe NVMe Gen4 x4, Class 35 SSD

The following table lists the M.2 2230, 256 GB SSD specifications.

Table 33. 256 GB SSD specifications

Capacity	256 GB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22.00 mm (0.87 in.)
Depth (approximate)	30.00 mm (1.18 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	500,118,192
Power source	
Power consumption (reference only)	● Idle: 5 mW (PS4) ● Active: 4 W
Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
Environmental non-operating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

M.2 2230, 512 GB, PCIe NVMe Gen4 x4, Class 35 SSD

The following table lists the M.2 2230, 512 GB SSD specifications.

Table 34. 512 GB SSD specifications

Capacity	512 GB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22.00 mm (0.87 in.)
Depth (approximate)	30.00 mm (1.18 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	1,000,215,216
Power source	
Power consumption (reference only)	● Idle: 5 mW (PS4) ● Active: 4 W
Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C

Table 34. 512 GB SSD specifications (continued)

Relative humidity range	10% to 90%
Op shock	1500G
Environmental non-operating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

M.2 2280, 512 GB, PCIe NVMe Gen4 x4, Class 40 SSD

The following table lists the M.2 2280, 512 GB SSD specifications.

Table 35. 512 GB SSD specifications

Capacity	512 GB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22.00 mm (0.87 in.)
Depth (approximate)	80.00 mm (3.15 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	1,000,215,216
Power source	
Power consumption (reference only)	● Idle: 5 mW (PS4 - L1.2) ● Active: 5 W
Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
Environmental non-operating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

M.2 2280, 1 TB, PCIe NVMe Gen4 x4, Class 40 SSD

The following table lists the M.2 2280, 1 TB SSD specifications.

Table 36. 1 TB SSD specifications

Capacity	1 TB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22.00 mm (0.87 in.)
Depth (approximate)	80.00 mm (3.15 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)

Table 36. 1 TB SSD specifications (continued)

MTBF	1.4M hours
Logical blocks	2,000,409,264
Power source	
Power consumption (reference only)	• Idle: 5 mW (PS4 - L1.2) • Active: 5 W
Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
Environmental non-operating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

M.2 2230, 256 GB, PCIe NVMe Gen3 x4, Opal Self-Encrypting Class 35 SSD

The following table lists the M.2 2230, 256 GB SSD, self-encrypting drive specifications.

Table 37. 256 GB SSD, self-encrypting drive specifications

Capacity	256 GB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22.00 mm (0.87 in.)
Depth (approximate)	30.00 mm (1.18 in.)
Interface type	PCIe Gen3
Speed (maximum)	32 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	500,118,192
Power source	
Power consumption (reference only)	• Idle: 5 mW (PS4) • Active: 3.50 W
Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
Environmental non-operating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

M.2 2230, 256 GB, PCIe NVMe Gen4 x4, Opal Self-Encrypting, Class 35 SSD

The following table lists the M.2 2230, 256 GB SSD specifications.

Table 38. 256 GB SSD, self-encrypting drive specifications

Capacity	256 GB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22.00 mm (0.87 in.)
Depth (approximate)	30.00 mm (1.18 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	500,118,192
Power source	
Power consumption (reference only)	- Idle: 5 mW (PS4) - Active: 4 W
Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
Environmental non-operating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

M.2 2280, 512 GB, PCIe NVMe Gen4 x4, Opal Self-Encrypting Class 40 Solid-State Drive

The following table lists the M.2 2280, 512 GB SSD, self-encrypting drive specifications.

Table 39. 512 GB SSD, self-encrypting drive specifications

Capacity	512 GB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22.00 mm (0.87 in.)
Depth (approximate)	80.00 mm (3.15 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	1,000,215,216
Power source	
Power consumption (reference only)	- Idle: 5 mW (PS4 - L12) - Active: 5 W

Table 39. 512 GB SSD, self-encrypting drive specifications (continued)

Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
Environmental non-operating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

Power adapter

The following table lists the power adapter specifications of your Latitude 7330.

Table 40. Power adapter specifications

Description	Values		
Type	60 W AC adapter, USB-C, Small form factor	65 W AC adapter, USB-C	90 W AC adapter, USB-C
Power-adapter dimensions:			
Height	22.00 mm (0.866 in.)	28.00 mm (1.10 in.)	22.00 mm (0.87 in.)
Width	66.00 mm (2.598 in.)	112.00 mm (4.41 in.)	130.00 mm (5.12 in.)
Depth	55.00 mm (2.165 in.)	51.00 mm (2.01 in.)	66.00 mm (2.60 in.)
Weight	0.105 kg (0.231 lb)	0.201 kg (0.443 lb)	0.291 g (0.641 lb)
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)	1.70 A	1.70 A	1.50 A
Output current (continuous)	5 V/3 A 9 V/3 A 15 V/3 A 20 V/3 A	5 V/3 A 9 V/3 A 15 V/3 A 20 V/3.25 A	5 V/3 A 9 V/3 A 15 V/3 A 20 V/4.50 A
Rated output voltage	5 VDC 9 VDC 15 VDC 20 VDC	5 VDC 9 VDC 15 VDC 20 VDC	5 VDC 9 VDC 15 VDC 20 VDC
Temperature range			
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	-20°C to 70°C (-4°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
Compliance			
Erp Lot6 Tier 2 requirement	Yes	Yes	Yes
80Plus compliant	Yes	Yes	Yes
Energy Star 8.0 compliant	Yes	Yes	Yes
GS mark compliant	Yes	Yes	Yes

Table 40. Power adapter specifications (continued)

Description	Values		
NCTC Anti Power Surge certification	Yes	Yes	Yes
NCTC Anti Lightning Strike certification	Yes	Yes	Yes

Accessories

The following table lists the supported accessories on your Latitude 7330.

Table 41. Accessories

Accessories
Audio:
Dell Premier Wireless ANC Headset
Adapters:
● Dell 7-in-1 USB-C Multiport Adapter ● Dell Mobile Adapter Speakerphone
Carrying case:
● Dell EcoLoop Pro Backpack ● Dell EcoLoop Pro Sleeve 11-14 ● Dell EcoLoop Pro Sleeve 15-16 ● Dell Premier Briefcase 15 ● Dell Premier Slim Backpack 15
Dock:
Dell Thunderbolt 4 Dock
Mouse:
Dell Premier Rechargeable Wireless Mouse
Keyboard:
Dell Premier Multi-Device Wireless Keyboard and Mouse
Stylus:
Dell Premier Rechargeable Active Pen
Monitor:
● Dell Collaboration 27 USB-C Hub Monitor ● Dell UltraSharp 27 4K USB-C Monitor
Webcam:
Dell UltraSharp Webcam
Power bank:
Dell Notebook Power Bank Plus û USB C, 65 Wh

Security

Software security

The following table lists the software security details of your Latitude 7330.

Table 42. Software security

Security options
Dell Client Command Suite: On-prem
Dell Client Command Suite: Cloud
Dell Optimizer
Dell Power Manager
Dell SupportAssist for PCs
Dell SupportAssist OS Recovery (Excalibur)
Dell SafeBIOS - Off Host Verification
Dell SafeBIOS - Indicators of Attack
Dell SafeID
VMware Carbon Black Endpoint Standard
VMware Carbon Black Endpoint Advanced
VMware Carbon Black Endpoint Enterprise
Absolute Visibility
Absolute Control
Absolute Resilience
Dell Encryption Personal
Dell Encryption Enterprise
Netskope Cloud Access Security Broker (CASB)
Netskope Secure Web Gateway
Netskope Private Access

Fingerprint reader

The following table lists the fingerprint reader specifications of your Latitude 7330.

Table 43. Fingerprint reader specifications

Category	Goodix—GF5288WNC
Sensor technology	Capacitive sensing
Sensor resolution	500 dpi
Sensor size	5.48 mm x 4.47 mm
Sensor pixel size	108 x 88 pixels
Dell ControlVault support	Yes
Dell ControlVault 3.0 support	Yes

Table 43. Fingerprint reader specifications (continued)

Anti-spoofing	Yes
Template storage	Dell ControlVault HW protected and encrypted
Match on chip	Yes
FIPS 201 certified	No

Dell ControlVault 3.0

The following table lists the Dell ControlVault 3.0 specifications of your Latitude 7330.

Table 44. Dell ControlVault 3.0 specifications

Title	Description	Dell ControlVault 3.0
CPU technology	N/A	1 GHz ARM Cortex A7
RAM	N/A	1 MB
ROM	N/A	16 MB
TPM included	TPM enumeration included within ControlVault	No
Host Interface	N/A	USB 3.2
Fingerprint procession on chip	Fingerprint processing occurs within secure boundary of ControlVault	Yes
Windows WBF support	Support for Windows biometric framework when Fingerprint reader is attached	Yes
FIPS 140-2 level 3 complaint	Device complaint with FIPS 140-2 level 3 requirements	Yes
FIPS 140-2 level 3 certified	Device certified with FIPS 140-2 level 3 requirements	Yes

Trusted Platform Module

The following table lists the Trusted Platform Module (TPM) of your Latitude 7330.

Table 45. Trusted Platform Module (TPM)

TPM: ST/ST33 HTPH2X32AHD8
Trusted Platform Module (TPM) 2.0 discrete
FIPS 140-2 certification for TPM
Trusted Computing Group (TCG) certification for TPM

Thermal specifications

The following table lists the thermal specifications of your Latitude 7330.

Table 46. Thermal specifications

100% single heat pipe	Increase the heat capacity to improve thermal dissipation
Better system tuning/setting	Get higher performance and good user experience
Pro-OS enhanced thermal setting (Dynamic PL1)	Increases boot-up time

Table 46. Thermal specifications (continued)

Linear fan control	Fan speed ramp more smoothly for better user experience, no more significant acoustic changing
DDT SSD setting	Protecting the SSD device in high temperature and worse cases to prevent blue screen of death (BSOD)
IEC 60529 ingress protection: IP-54	● Dust protected ● Protected against dripping water

System management features

Dell commercial systems come with a number of systems management options that are include by default for In-Band management with our Dell Client Command Suite. In-Band management meaning that the Operating System is functional and the device is connected to a network so that it can be managed. The Dell Client Command Suite of tools can be leveraged individually or with a systems management console like SCCM, LANDESK, KACE, etc.

We also offer Out-of-Band management as an option. Out-of-band management is when the system does not have a functional operating system or is turned off and you still want to be able to manage the system in that state.

Dell Client Command Suite for In-Band systems management

Dell Client Command Suite is a free toolkit available for download, for all Latitude Rugged tablets at dell.com/support, that automates and streamlines systems management tasks, saving time, money, and resources. It consists of the following modules that can be used independently, or with a variety of systems management consoles such as SCCM.

Dell Client Command Suite's integration with VMware Workspace ONE Powered by AirWatch, now allows customers to manage their Dell client hardware from the cloud, using a single Workspace ONE console.

Dell Command | Deploy enables easy operating system (OS) deployment across all major OS deployment methodologies and provides numerous system-specific drivers that have been extracted and reduced to an OS-consumable state.

Dell Command I Configure is a graphical user interface (GUI) admin tool for configuring and deploying hardware settings in a pre-OS or post-OS environment, and it operates seamlessly with SCCM and Airwatch and can be self-integrated into LANDesk and KACE. Simply, this is all about the BIOS. Command I Configure allows you to remotely automate and configure over 150+ BIOS settings for a personalized user experience.

Dell Command I PowerShell Provider can do the same things as Command I Configure, but with a different method. PowerShell is a scripting language that allows customers to create a customized and dynamic configuration process.

Dell Command I Monitor is a Windows Management Instrumentation (WMI) agent that provides IT admins with an extensive inventory of the hardware and health-state data. Admins can also configure hardware remotely by using command line and scripting.

Dell Command I Power Manager (end-user tool) is a GUI-based factory-installed battery management tool that allows end users to choose the battery management methods that meet their personal preferences or work schedule without sacrificing IT's capability to control those settings with Group Policy.

Dell Command | Update (end-user tool) is factory-installed and allows admins to individually manage and automatically present and install Dell updates to the BIOS, drivers, and software. Command I Update eliminates the time-consuming hunting and pecking process of update installation.

Dell Command I Update Catalog provides searchable metadata that allows the management console to retrieve the latest system-specific updates (driver, firmware or BIOS). The updates are then delivered seamlessly to end-users using the customer's systems management infrastructure that is consuming the catalog (like SCCM).

Dell Command | vPro Out of Band console extends hardware management to systems that are offline or have an un-reachable OS (Dell exclusive features).

Dell Command | Integration Suite for System Center - This suite integrates all the key components of the Client Command Suite into Microsoft System Center Configuration Manager 2012 and Current Branch versions.

Out of Band Systems Management

Intel Standard Manageability option **must be configured in our factory at the time of purchase, as it is NOT field upgradable.** It offers out-of-band management and DASH compliance (https://registry.dmtf.org/registry/results/field_initiative_name%3A%22DASH%201.0%22).

ComfortView Plus

⚠ **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 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.

5

Dell Optimizer

This section details the Dell Optimizer specifications of your Latitude 7330.

On Latitude 7330 with Dell Optimizer, the following features are supported:

- **Express Connect**—Automatically joins the access point with the strongest signal, and directs bandwidth to conferencing applications when in use.
- **Express Sign-in**—The Intel Context Sensing Technology's proximity sensor detects your presence to instantly wake up the computer and login using the IR camera and Windows Hello feature. Windows locks when you walk away.
- **ExpressResponse**—Prioritizes the most important applications. Applications open faster and perform better.
- **ExpressCharge**—Extends the battery runtime and improves battery performance by adapting to your patterns.

For more information about configuring and using these features, see Dell Optimizer User Guide.

Color, material, and finish

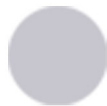This section details the color, material, and finish (CMF) specifications of your Latitude 7330.

Carbon Fiber

Table 47. CMF specifications

Carbon Fiber	
A Cover (Top)	220 GSM 3K Carbon Plain Weave with insert molded (Abyss, Resin) - WB Painted: Clear Basecoat + Velvet Top Coat - Fiber Clear Velvet WPUST 5 +/- 1.5 GU
B Cover (Hinge up)	- Single-Shot Plastic (Apollo, Resin) - WB Painted: Monocoat - Apollo Dull WUVM 5 +/- 1.5 GU
C Cover (Palmrest)	- PC+ Talc with 30% PCR (Dell Standard Black, Resin) - WB Painted: Basecoat + Velvet Top Coat - Abyss Velvet WPUST 5 +/- 1.5 GU
D Cover (Bottom)	- Magnesium - WB Painted: Primer + PU Monocoat - Abyss Dull W2KM 10 +/- 2 GU

ⓘ **NOTE:** Carbon –19-4205 TPG RGB 64 65 69 HEX/HTML 404145 CMYK NA

ⓘ **NOTE:** Apollo –19-4205 TPG RGB 64 65 69 HEX/HTML 404145 CMYK NA

Aluminium Titan Gray

Table 48. CMF specifications

Aluminum Titan Gray	
A Cover (Top)	• Aluminum Stamping + CNC • Stamping > CNC > Hairline Brushing > beadblasting > Anodizing • Anodized Titan Gray, Hairline • Hairline (top) 17 +/- 3 GU Beadblasting (sidewall & the rest of the surface) 11 +/- 3 GU
B Cover (Hinge up)	• Single-Shot Plastic (Apollo, Resin) • WB Painted: Basecoat + velvet Top Coat • Apollo Velvet WPUST • 5 +/- 1.5 GU
C Cover (Palmrest)	• Aluminum Stamping with Anodized • Stamping > CNC > hairline brushing > beadblasing > Anodizing > diamond cut (click pad surround) • Anodized Titan Gray, Hairline • Hairline (top) 17 +/- 3 GU Diamond cut (click pad surrounded) >150 GU Beadblasting (sidewall & the rest of the surface) 11 +/- 3 GU
D Cover (Bottom)	• Magnesium + Insert Molding

Table 48. CMF specifications (continued)

	• WB Painted: Primer + PU Monocoat • Titan Gray Dull W2KM • 10 +/- 2 GU

ⓘ **NOTE:** Carbon –19-4205 TPG RGB 64 65 69 HEX/HTML 404145 CMYK NA

ⓘ **NOTE:** Apollo –19-4205 TPG RGB 64 65 69 HEX/HTML 404145 CMYK NA

Magnesium Alloy

Table 49. CMF specifications

Magnesium Alloy	
A Cover (Top)	• Magnesium • WB Painted: Basecoat + velvet top coat • Abyss Velvet WPUST • 5 +/- 1.5 GU
B Cover (Hinge up)	• Single-Shot Plastic (Apollo, Resin) • WB Painted: Monocoat • Apollo Velvet WPUST • 5 +/- 1.5 GU
C Cover (Palmrest)	• PC+ Talc with 30% PCR (Dell Standard Black, Resin) • WB Painted: Basecoat + Velvet Top Coat • Abyss Velvet WPUST • 5 +/- 1.5 GU
D Cover (Bottom)	• Magnesium • WB Painted: Primer + PU Monocoat • Abyss Dull W2KM • 10 +/- 2 GU

(i) **NOTE:** Carbon –19-4205 TPG RGB 64 65 69 HEX/HTML 404145 CMYK NA

(i) **NOTE:** Apollo –19-4205 TPG RGB 64 65 69 HEX/HTML 404145 CMYK NA

Keyboard shortcuts of Latitude 7330

ⓘ **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 bottom of the key. Press the function key to invoke the task represented by the icon. For example, pressing F1 mutes the audio (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**. Subsequently, multi-media 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 BIOS setup program.

Table 50. List of keyboard shortcuts

Function key	Primary behavior
F1	Mute audio
F2	Decrease volume
F3	Increase volume
F4	Mute mic
F5	Click keyboard backlight (optional). ⓘ **NOTE:** Non-backlight keyboards have F5 function key without the backlight icon and do not support toggle keyboard backlight function. ⓘ **NOTE:** 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 51. 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

Table 51. Secondary behavior (continued)

Function key	Secondary 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 F7 behavior
Fn + F8	Operating system and application specific F8 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 + PrtScr	Turn off/on wireless
Fn + B	Pause/Break
Fn + Insert	Sleep
Fn + S	Toggle scroll lock
Fn + H	Toggle between power and battery-status light/hard-drive activity light
Fn + R	System request
Fn + Ctrl	Open application menu
Fn + Esc	Toggle Fn-key lock
Fn + PgUp	Page up
Fn + PgDn	Page down
Fn + Home	Home
Fn + End	End

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 52. Self-help resources

Self-help resources	Resource location
Information about Dell products and services	www.dell.com
My Dell app	
Tips	
Contact Support	In Windows search, type `Contact Support`, and press Enter.
Online help for operating system	www.dell.com/support/windows www.dell.com/support/linux
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 www.dell.com/support. For more information on how to find the Service Tag for your computer, see Locate the Service Tag on your computer.
Dell knowledge base articles for a variety of computer concerns	1. Go to www.dell.com/support. 2. On the menu bar at the top of the Support page, select **Support** > **Knowledge Base**. 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.

Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see www.dell.com/contactdell.

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

(i) **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.