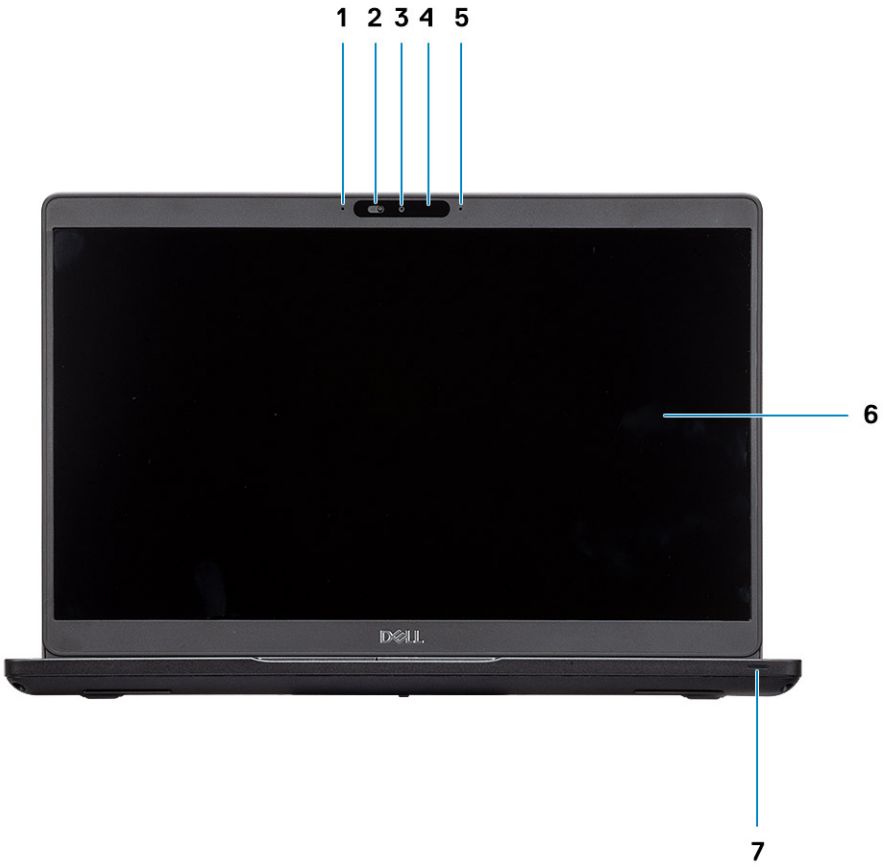
3

Chassis overview

Topics:

- Display view
- Left view
- Right view
- Palmrest view
- Bottom view
- Keyboard shortcuts

Display view

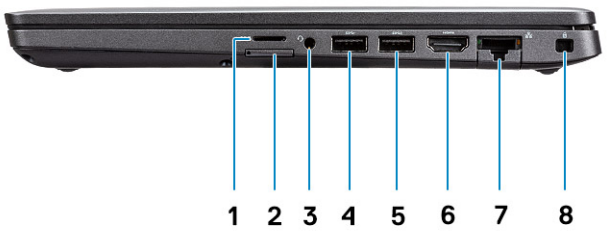


1. Array microphone
2. SafeView shutter
3. Camera
4. Camera status light
5. Array microphone
6. LCD panel
7. LED activity light

Left view

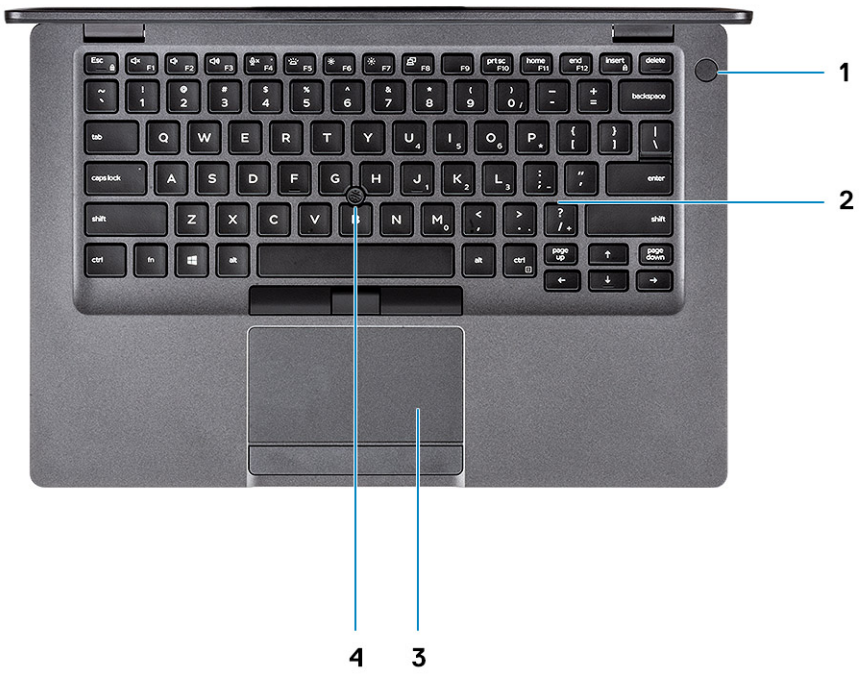
1. Power connector port
2. USB 3.1 Gen 2 (USB Type-C) port with DisplayPort/Thunderbolt (optional)
3. USB 3.1 Gen 1
4. Smart card reader (optional)

Right view



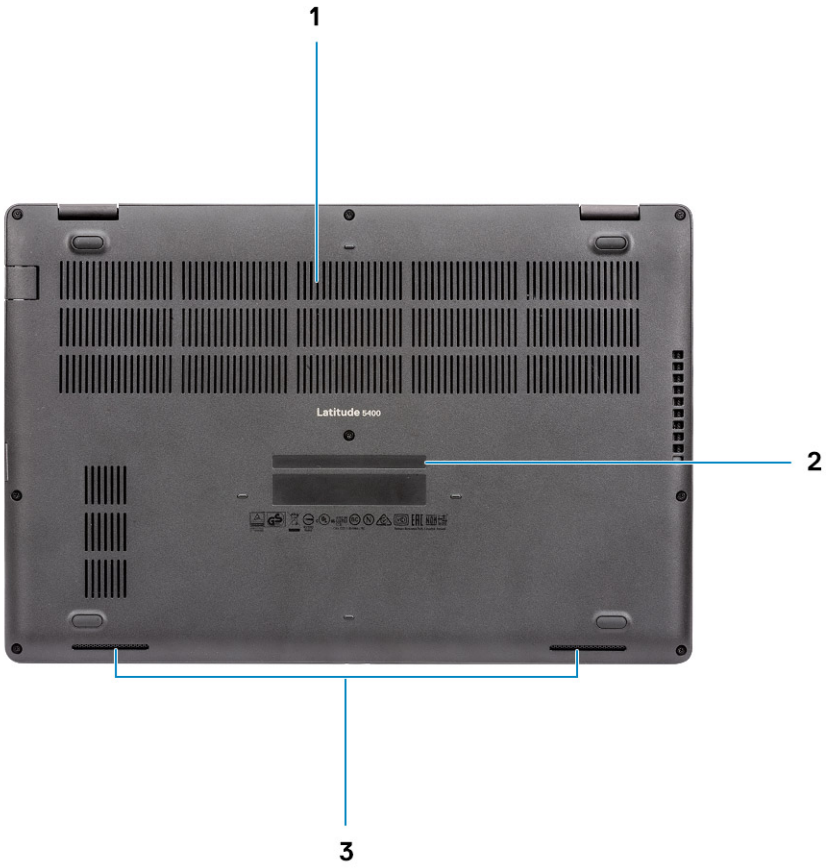
1. microSD card reader
2. micro-SIM card slot
3. Headset/ Microphone port
4. USB 3.1 Gen 1 port
5. USB 3.1 Gen 1 port with PowerShare
6. HDMI port
7. Network port
8. Wedge-shaped lock slot

Palmrest view



1. Power button with optional fingerprint
2. Keyboard
3. Touchpad
4. Trackstick (optional)

Bottom view



1. Thermal 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 2. List of keyboard shortcuts

Keys	Primary behavior	Secondary behavior (Fn + Key)
Fn + Esc	Escape	Toggle Fn-key lock
Fn + F1	Mute audio	F1 behavior
Fn + F2	Decrease volume	F2 behavior
Fn + F3	Increase volume	F3 behavior
Fn + F4	Mute microphone	F4 behavior
Fn + F5	Turn on/off keyboard backlight	F5 behavior

Keys	Primary behavior	Secondary behavior (Fn + Key)
Fn + F6	Decrease brightness	F6 behavior
Fn + F7	Increase brightness	F7 behavior
Fn + F8	Switch to external display	F8 behavior
Fn + F10	Print screen	F10 behavior
Fn + F11	Home	F11 behavior
Fn + 12	End	F12 behavior
Fn + Ctrl	Open application menu	--

4

Technical specifications

System information

Table 3. System information

Feature	Specifications
Chipset	Integrated in the processor
DRAM bus width	64-bit
FLASH EPROM	32 MB
PCIe bus	Up to Gen3
External bus frequency	Up to 8 GT/s

Processor

NOTE: Processor numbers are not a measure of performance. Processor availability is subject to change and may vary by region/country.

Table 4. Processor specifications

Type	UMA Graphics	Discrete Graphics
8th Gen Intel Core i7-8665U processor (8 MB cache, 4 core count/8 threads, 1.9 GHz to 4.8 GHz, 15 W TDP, vPro)	Intel UHD Graphics 620	AMD Radeon 540X
8th Gen Intel Core i5-8365U processor (6 MB cache, 4 core count/8 threads, 1.6 GHz to 4.1 GHz, 15 W TDP, vPro)	Intel UHD Graphics 620	AMD Radeon 540X
8th Gen Intel Core i5-8265U processor (6 MB cache, 4 core count/8 threads, 1.6 GHz to 3.9 GHz, 15 W TDP)	Intel UHD Graphics 620	AMD Radeon 540X
8th Gen Intel Core i3-8145U processor (4 MB cache, 2 core count/4 threads, 2.1 GHz to 3.9 GHz, 15 W TDP)	Intel UHD Graphics 620	NA

Memory

Table 5. Memory specifications

Feature	Specifications
Minimum memory configuration	4 GB

Feature	Specifications
Maximum memory configuration	32 GB
Number of slots	2 x SoDIMM slots
Maximum memory supported per slot	16 GB
Memory options	• 4 GB (1 x 4 GB) • 8 GB (2 x 4 GB) • 8 GB (1 x 8 GB) • 16 GB (2 x 8 GB) • 16 GB (1 x 16 GB) • 32 GB (2 x 16 GB)
Type	Dual-channel DDR4
Speed	2666 MHz Non-ECC SDRAM operates at 2400 MHz with Intel 8th Gen processors

Storage

Table 6. Storage specifications

Type	Form factor	Interface	Capacity
PCIe Solid-State Drive	M.2 2230 SSD	PCIe Gen 3x2 NVMe, up to 32 Gbps	Upto 512 GB
PCIe Solid-State Drive	M.2 2280 SSD	PCIe Gen 3x4 NVMe, up to 32 Gbps	Upto 1 TB
SATA Solid-State Drive	M.2 2280 SSD	SATA Class 20	Upto 512 GB
SED PCIe Solid-State Drive	M.2 2280 SSD	SED PCIe	Upto 512 GB
HDD	2.5 in.	SATA	• Upto 1 TB; 5400 RPM • Upto 1 TB; 7200 RPM

System board connectors

Table 7. System board connectors

Feature	Specifications
M.2 Connectors	• One M.2 2230 Key-E connector • One M.2 2280 Key-E connector • One M.2 3042 Key-B connector

Media card-reader

Table 8. Media-card reader specifications

Feature	Specifications
Type	Micro SD Card Reader Slot Micro SD Card

Audio

Table 9. Audio specifications

Feature	Specifications
Controller	Realtek ALC3204 with Waves MaxxAudio Pro
Stereo conversion	24-bit DAC (Digital-to-Analog) and ADC (Analog-to-Digital)
Type	HD Audio
Speakers	Two
Interface	Internal: • Intel HDA (high-definition audio) External: • 7.1 channel output via HDMI • Digital microphone input on camera module • Headset combo jack (stereo headphones/microphone-in)
Internal speaker amplifier	Integrated in ALC3204 (Class-D 2 W)
External volume controls	Media-control shortcut keys
Speaker output:	Average: 2 W Peak: 2.5 W
Microphone	Digital-array microphones

Video card

Table 10. Video card specifications

Controller	Type	CPU Dependency	Graphics memory type	Capacity	External display support	Maximum resolution
Intel UHD Graphics 620	UMA	• Intel Core i7-8665U CPU (vPro) • Intel Core i5-8365U CPU • Intel Core i5-8265U CPU • Intel Core i3-8145U CPU	Integrated	Shared system memory	HDMI 1.4b port	4096 x 2304 @24 Hz
AMD Radeon 540X	Discrete	NA	GDDR5	2 GB	N/A	N/A

Camera

Table 11. Camera specifications

Feature	Specifications
Camera Type	RGB, HD fixed focus
IR Camera	6 mm IR camera (optional)
Resolution	Still image: HD resolution (1280 x 720) Video: HD resolution (1280 x 720) at 30 fps
Diagonal viewing angle	IR: 87 degree RGB: 78.6 degree
Sensor type	CMOS sensor technology

NOTE: The RBG + IR camera is for Windows Hello application only and other applications cannot use it.

Communication

Table 12. Communication specifications

Feature	Specifications
Network adapter	Integrated Connection I219-LM/I219-V 10/100/1000 Mb/s Ethernet (RJ-45)

Mobile Broadband

Table 13. Mobile Broadband

Specifications
Intel XMM 7360 Global LTE-Advanced

Wireless

Table 14. Wireless specifications

Specifications
Intel Dual Band Wireless AC 9560 (802.11ac) 2x2 + Bluetooth 5.0
Qualcomm QCA61x4A 802.11ac Dual Band (2x2) Wireless Adapter + Bluetooth 4.2
Intel Wi-Fi 6 AX200 2x2 .11ax 160 MHz + Bluetooth 5.0 (Optional)

Ports and connectors

Table 15. Ports and connectors

Feature	Specifications
Memory card reader	• One MicroSD card reader
SIM card reader	One micro SIM card slot

Feature	Specifications
USB	• Three USB 3.1 Gen 1 (Type-A) ports • One USB Type-C 3.1 Gen 2 port with DisplayPort/Thunderbolt 3(optional)
Security	Noble wedge lock slot
Audio	One headset (headphone and microphone combo) port
Video	One HDMI 1.4b port (supports up to 4k @30 Hz)
Network adapter	RJ-45, 10/100/1000, with LED indicator

Display

Table 16. Display specifications

Feature	Specifications
Type	• 14 in. HD (1366 x 768), antiglare (16:9), WLED, non-touch, 220 nits • 14 in. FHD Wide viewing angle (1920 x 1080), antiglare (16:9) WLED, non-touch, 220 nits • 14 in. FHD Wide viewing angle (1920 x 1080), Embedded touch display with antiglare, 220 nits (optional)
Height (Active area)	173.95 mm (6.84 in.)
Width (Active area)	309.4 mm (12.18 in.)
Diagonal	355.6 mm (14 in.)
Pixels Per Inch (PPI)	112 (HD) 157 (FHD)
Contrast ratio	400:1 (HD) 700:1 (FHD)
Luminance/Brightness (typical)	220 Nits
Refresh rate	60 Hz
Horizontal viewing angle (min)	+/- 40 degrees (HD) +/- 80 degrees (FHD) (optional)
Vertical viewing angle (min)	10/30 degrees U/D (HD) +/- 80 degrees (FHD)(optional)
Power consumption (max)	2.4 W (HD) 2.8 W (FHD) 3.15 W (FHD touch panel)

Keyboard

Table 17. Keyboard specifications

Feature	Specifications
Number of keys	• 81 (U.S. and Canada) • 82 (UK/Brazil) • 85 (Japan)
Size	Full sized • X= 19.05 mm (0.75 in.) key pitch • Y= 19.05 mm (0.75 in.) key pitch
Backlit keyboard	Optional (backlit and Non-backlit)
Layout	QWERTY

Touchpad

Table 18. Touchpad specifications

Feature	Specifications
Resolution	1221 x 661
Dimensions	• Width: 101.7 mm (4.00 in.) • Height: 55.2 mm (2.17 in.)
Multi-touch	Supports 5-finger multi-touch **NOTE: For more information about touchpad gestures for Windows 10, see the Microsoft knowledge base article 4027871 at support.microsoft.com.**

Fingerprint reader—optional

Table 19. Fingerprint reader specifications

Feature	Specifications
Type	FPR in power button
Sensor technology	Capacitive
Sensor resolution	363 PPI
Sensor area	Diameter: 10 mm

Operating system

Table 20. Operating system

Feature	Specifications
Operating systems supported	• Windows 10 Home (64 bit) • Windows 10 Professional (64bit) • Ubuntu 18.04 LTS (64 bit) • NeoKylin 6.0 SP4 (PRTS)

Battery

Table 21. Battery

Feature	Specifications					
Type	3-cell lithium-ion (42 WHr) ExpressCharge		3-cell lithium-ion (51 WHr) ExpressCharge		4-cell lithium-ion (68 WHr) ExpressCharge	
Dimension	Width Depth Height	95.9 mm (3.78 in.) 181 mm (7.13 in.) 7.05 mm (0.28 in.)	Width Depth Height	95.9 mm (3.78 in.) 181 mm (7.13 in.) 7.05 mm (0.28 in.)	Width Depth Height	95.9 mm (3.78 in.) 233 mm (9.17 in.) 7.05 mm (0.28 in.)
Weight (maximum)	200 g (0.44 lb)		250 g (0.55 lb)		340 g (0.75 lb)	
Voltage	11.40 VDC		11.40 VDC		7.6 VDC	
Life span	300 discharge/charge cycles		300 discharge/charge cycles		300 discharge/charge cycles (standard pack) 1000 discharge/charge cycles (LCL pack)	
Charging time when the computer is off (approximate)	Standard charge	0°C to 50°C: 4 hours	Standard charge	0°C to 50°C: 4 hours	Standard charge	0°C to 50°C: 4 hours
	Express Charge	0°C to 15°C: 4 hours 16°C to 45°C: 2 hours 46°C to 50°C: 3 hours	Express Charge	0°C to 15°C: 4 hours 16°C to 45°C: 2 hours 46°C to 50°C: 3 hours	Express Charge	0°C to 15°C: 4 hours 16°C to 45°C: 2 hours 46°C to 50°C: 3 hours
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.		Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.		Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	
Temperature range: Operating	Charge: 0°C to 50°C, 32°F to 122°F Discharge: 0°C to 60°C, 32°F to 139°F		Charge: 0°C to 50°C (32°F to 122°F) Discharge: -20°C to 60°C (-40°F to 139°F)		Charge: 0°C to 50°C, 32°F to 122°F Discharge: 0°C to 60°C, 32°F to 139°F	
Temperature range: Storage	-20°C to 60°C (-4°F to 140°F)		-20°C to 60°C (-40°F to 140°F)		-20°C to 60°C (-4°F to 140°F)	

Feature	Specifications		
Coin-cell battery	CR-2032	CR-2032	CR-2032

Power adapter

Table 22. Power adapter specifications

Feature	Specifications	
Type	E5 65 W	E5 90 W
Input Voltage	100 VAC - 240 VAC	100 VAC - 240 VAC
Input current (maximum)	1.5 A	1.6 A
Adapter size	Dimensions In Inches: 0.87 x 2.60 x 4.17 In mm: 22 x 66 x 106	Dimensions In Inches: 0.87 x 2.60 x 5.12 In mm: 22 x 66 x 130
Barrel	7.4 mm	7.4 mm
Weight	0.23 kg (0.51 lb)	0.32 kg (0.70 lb)
Input frequency	50 Hz to 60 Hz	50 Hz to 60 Hz
Output current	3.34 A (continuous)	4.62 A (continuous)
Rated output voltage	19.5 VDC	19.5 VDC
Temperature range (Operating)	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
Temperature range (Non-Operating)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)

Sensor and control specifications

Table 23. Sensor and control specifications

Specifications
1. Free fall sensor on motherboard
2. Hall Effect Sensor (Detects when the lid is closed)

Dimensions and weight

Table 24. Dimensions and weight

Feature	Specifications
Height	Front: 19.6 mm (0.77 in.) Rear: 20.85 mm (0.82 in.)
Width	323.05 mm (12.7 in.)
Depth	216 mm (8.5 in.)

Feature	Specifications
Weight	1.48 kg (3.26 lb)

Computer environment

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

Table 25. Computer environment

	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) **NOTE: Maximum dew point temperature = 26°C**	0% to 95% (non-condensing) **NOTE: Maximum dew point temperature = 33°C**
Vibration (maximum)	0.26 GRMS	1.37 GRMS
Shock (maximum)	105 G †	40 G‡
Altitude (maximum)	-15.2 m to 3048 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 26. Security

Feature	Specifications
Trusted Platform Module (TPM) 2.0	Integrated on the system board
Firmware TPM	Optional
Windows Hello Support	Yes, optional fingerprint on power button Optional IR camera
Cable lock	Noble lock
Dell Smartcard Keyboard	Optional
FIPS 140-2 certification for TPM	Yes
ControlVault 3 Advanced Authentication with FIPS 140-2 Level 3 Certification	Yes, for FPR, SC and CSC/NFC
Fingerprint Reader Only	Touch Fingerprint reader in power button tied to ControlVault 3
Contacted Smart Card and ControlVault 3	FIPS 201 Smart card reader certification/SIPR

Security options—Contacted smartcard reader

Table 27. Contacted smartcard reader

Title	Description	Dell ControlVault 3 Smartcard reader
ISO 7816 -3 Class A Card Support	Reader capable of reading 5V powered smartcard	Yes
ISO 7816 -3 Class B Card Support	Reader capable of reading 3V powered smartcard	Yes
ISO 7816 -3 Class C Card support	Reader capable of reading 1.8V powered smartcard	Yes
ISO 7816-1 Compliant	Specification for the reader	Yes
ISO 7816 -2 Compliant	Specification for smartcard 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) smartcard standards as posted to www.emvco.com	Yes
EMVCo Certified	Formally certified based on EMVCO smartcard 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 Micrsoft WHCK	Yes
FIPS 201 (PIV/HSPD-12) Compliant via GSA	Device compliant with FIPS 201/PIV/ HSPD-12 requirements	Yes

Security options—Contactless smartcard reader

Table 28. Contactless smartcard reader

Title	Description	Dell ControlVault 3 Contactless Smartcard 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

Title	Description	Dell ControlVault 3 Contactless Smartcard reader with NFC
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
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 smartcard standards as posted to www.emvco.com	Yes
EMVCo Certified	Formally certified based on EMVCO smartcard 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
Prox (Proximity) (125kHz) Card support	Reader and software capable of supporting Prox/Proximity/125kHz contactless cards	No

NOTE: 125 Khz proximity cards are not supported.

Table 29. Supported cards

Manufacturer	Card	Supported
HID	jCOP readertest3 A card (14443a)	Yes
	1430 1L	
	DESFire D8H	
	iClass (Legacy)	
	iClass SEOS	
NXP/Mifare	Mifare DESFire 8K White PVC Cards	Yes
	Mifare Classic 1K White PVC Cards	
	NXP Mifare Classic S50 ISO Card	

Manufacturer	Card	Supported
G&D	idOnDemand - SCE3.2 144K	Yes
	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	
Oberthur	idOnDemand - OCS5.2 80K	Yes
	ID-One Cosmo 64 RSA D V5.4 T=0 card	

Security Software

Table 30. Security Software specifications

Specifications
Dell Client Command Suite
Optional Dell Data Security and Management Software • Dell Endpoint Security Suite Enterprise • Dell Data Guardian • Dell Encryption Enterprise • Dell Encryption Personal • Dell Threat Defense • MozyPro or MozyEnterprise • RSA NetWitness Endpoint • RSA SecurID Access • VMware Workspace ONE • Absolute Endpoint Visibility and Control

5

Software

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

Topics:

- Downloading drivers

Downloading drivers

1. Turn on the notebook.
2. Go to **Dell.com/support**.
3. Click **Product Support**, enter the Service Tag of your notebook, and then click **Submit**.

   NOTE: If you do not have the Service Tag, use the auto detect feature or manually browse for your notebook model.
4. Click **Drivers and Downloads**.
5. Select the operating system installed on your notebook.
6. Scroll down the page and select the driver to install.
7. Click **Download File** to download the driver for your notebook.
8. After the download is complete, navigate to the folder where you saved the driver file.
9. Double-click the driver file icon and follow the instructions on the screen.

6

System setup

CAUTION: Unless you are an expert computer user, do not change the settings in the BIOS Setup program. Certain changes can make your computer work incorrectly.

NOTE: Before you change BIOS Setup program, it is recommended that you write down the BIOS Setup program screen information for future reference.

Use the BIOS Setup program for the following purposes:

- Get information about the hardware installed in your computer, such as the amount of RAM and the size of the hard drive.
- Change the system configuration information.
- Set or change a user-selectable option, such as the user password, type of hard drive installed, and enabling or disabling base devices.

Topics:

Boot menu

Press <F12> when the Dell logo appears to initiate a one-time boot menu with a list of the valid boot devices for the system. Diagnostics and BIOS Setup options are also included in this menu. The devices listed on the boot menu depend on the bootable devices in the system. This menu is useful when you are attempting to boot to a particular device or to bring up the diagnostics for the system. Using the boot menu does not make any changes to the boot order stored in the BIOS.

The options are:

- UEFI Boot:
  - Windows Boot Manager
-
- Other Options:
  - BIOS Setup
  - BIOS Flash Update
  - Diagnostics
  - Change Boot Mode Settings

Navigation keys

NOTE: For most of the System Setup options, changes that you make are recorded but do not take effect until you restart the system.

Keys	Navigation
Up arrow	Moves to the previous field.
Down arrow	Moves to the next field.
Enter	Selects a value in the selected field (if applicable) or follow the link in the field.
Spacebar	Expands or collapses a drop-down list, if applicable.

Keys	Navigation
Tab	Moves to the next focus area.
Esc	Moves to the previous page until you view the main screen. Pressing Esc in the main screen displays a message that prompts you to save any unsaved changes and restarts the system.

Boot Sequence

Boot sequence enables you to bypass the System Setup–defined boot device order and boot directly to a specific device (for example: optical drive or hard drive). During the Power-on Self-Test (POST), when the Dell logo appears, you can:

- Access System Setup by pressing F2 key
- Bring up the one-time boot menu by pressing F12 key.

The one-time boot menu displays the devices that you can boot from including the diagnostic option. The boot menu options are:

- Removable Drive (if available)
- STXXXX Drive

  NOTE: XXXX denotes the SATA drive number.
- Optical Drive (if available)
- SATA Hard Drive (if available)
- Diagnostics

  NOTE: Choosing Diagnostics, displays the ePSA diagnostics screen.

The boot sequence screen also displays the option to access the System Setup screen.

System setup options

NOTE: Depending on the laptop and its installed devices, the items listed in this section may or may not appear.

General options

Table 31. General

Option	Description
System Information	Displays the following information: • System Information: Displays **BIOS Version, Service Tag, Asset Tag, Ownership Tag, Manufacture Date, Ownership Date,** and the **Express Service Code**. • Memory Information: Displays **Memory Installed, Memory Available, Memory Speed, Memory Channel Mode, Memory Technology, DIMM A size, and DIMM B size** • Processor Information: Displays **Processor Type, Core Count, Processor ID, Current Clock Speed, Minimum Clock Speed, Maximum Clock Speed, Processor L2 Cache, Processor L3 Cache, HT Capable,** and **64-Bit Technology.** • Device Information: Displays **Primary HDD, M.2 PCIe SSD-0, LOM MAC Address, Video Controller, Video BIOS Version, Video Memory, Panel type, Native Resolution, Audio Controller, Wi-Fi Device, and Bluetooth Device.**
Battery Information	Displays the battery status health and whether the AC adapter is installed.
Boot Sequence	Allows you to specify the order in which the computer attempts to find an operating system from the devices specified in this list.
UEFI Boot Path Security	This option controls whether or not the system will prompt the user to enter the Admin password when booting a UEFI boot path from the F12 Boot Menu. • Always, Except Internal HDD—Default • Always, Except Internal HDD&PXE • Always • Never

Option	Description
Date/Time	Allows you to set the date and time settings. Changes to the system date and time take effect immediately.

.

System information

Table 32. System Configuration

Option	Description
Integrated NIC	Allows you to configure the on-board LAN controller. • Disabled = The internal LAN is off and not visible to the operating system. • Enabled = The internal LAN is enabled. • Enabled w/PXE = The internal LAN is enabled (with PXE boot) (selected by default)
SATA Operation	Allows you to configure the operating mode of the integrated hard drive controller. • Disabled = The SATA controllers are hidden • AHCI = SATA is configured for AHCI mode • RAID ON = SATA is configured to support RAID mode (selected by default)
Drives	Allows you to enable or disable the various drives on-board: • SATA-2 (enabled by default) • M.2 PCIe SSD-0 (enabled by default)
Smart Reporting	This field controls whether hard drive errors for integrated drives are reported during system startup. The **Enable Smart Reporting option** is disabled by default.
USB Configuration	Allows you to enable or disable the integrated USB controller for: • Enable USB Boot Support • Enable External USB Port All the options are enabled by default.
Thunderbolt Adapter Configuration	This section allows Thunderbolt Adapter Configuration. • Thunderbolt-is enabled by default • Enable Thunderbolt Boot Support-is disabled • No security-is disabled • User configuration-enabled by default • Secure connect-is disabled • Display port and USB Only-is disabled
USB PowerShare	This option configures the USB PowerShare feature behavior. • Enable USB PowerShare - disabled by default This feature is intended to allow users to power or charge external devices, such as phones and portable music players, using the stored system battery power through the USN PowerShare port on the notebook, while the notebook is in a sleep state.
Audio	Allows you to enable or disable the integrated audio controller. The option **Enable Audio** is selected by default. • Enable Microphone • Enable Internal Speaker Both the options are selected by default.

Option	Description
Keyboard Illumination	This field lets you choose the operating mode of the keyboard illumination feature. The keyboard brightness level can be set from 0% to 100%. The options are: • Disabled • Dim • Bright-enabled by default
Keyboard Backlight Timeout on AC	The Keyboard Backlight Timeout dims out with AC option. The main keyboard illumination feature is not affected. Keyboard Illumination will continue to support the various illumination levels. This field has an effect when the backlight is enabled. The options are: • 5 sec • 10 sec-enabled by default • 15 sec • 30 sec • 1 min • 5 min • 15 min • Never
Keyboard Backlight Timeout on Battery	The Keyboard Backlight Timeout dims out with the Battery option. The main keyboard illumination feature is not affected. Keyboard Illumination will continue to support the various illumination levels. This field has an effect when the backlight is enabled. The options are: • 5 sec • 10 sec-enabled by default • 15 sec • 30 sec • 1 min • 5 min • 15 min • Never
Unobtrusive Mode	• Enable Unobtrusive Mode (disabled by default) When enabled pressing Fn+Shift+B will turn off all light and sound emissions in the system. Press Fn+Shift+B to resume normal operation.
Miscellaneous Devices	Allows you to enable or disable the following devices: • Enable Camera (enabled by default) • Enable Hard Drive Free Fall Protection(enabled by default) • Enable Secure Digital (SD) Card (enabled by default) • Secure Digital (SD) Card Boot • Secure Digital (SD) Card Read-Only Mode
MAC Address Pass-Through	• System Unique MAC Address (disabled by default) • Integrated NIC 1 MAC Address • Disabled The feature replaces the external NIC MAC address (in a supported dock or dongle) with the selected MAC address from the system. The default option is to use the Passthrough MAC address.

Video

Option	Description
LCD Brightness	Allows you to set the display brightness depending up on the power source—On Battery and On AC. The LCD brightness is independent for battery and AC adapter. It can be set using the slider.