

Dell Latitude 7410 Chromebook Enterprise

Setup and specifications guide

1



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.

Chapter 1: Set up your computer	4
Chapter 2: Chassis overview	5
Display view.....	5
Left view.....	6
Right view.....	6
Palmrest view.....	7
Bottom view.....	8
Modes.....	8
Chapter 3: Technical specifications	11
Processors.....	11
Chipset.....	12
Operating system.....	12
Memory.....	12
Storage.....	12
Ports and connectors.....	13
Audio.....	13
Video.....	14
Camera.....	14
Communications.....	15
Media-card reader.....	16
Power adapter.....	16
Battery.....	16
Dimensions and weight.....	17
Display.....	17
Security.....	18
Security Software.....	19
Computer environment.....	19
Chapter 4: Software	20
Operating system.....	20
Chrome OS.....	20
Verified Boot.....	21
Disk Partition Map.....	22
Developer and Recovery mode.....	23
Coreboot and U-boot Custom Firmware.....	23
Chrome vs Chromium OS.....	23
View system information.....	24
Chapter 5: Getting help	26
Contacting Dell.....	26

Set up your computer

Steps

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

i **NOTE:** To conserve battery power, the battery might enter power saving mode.



2. Finish system setup.

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

- Connect to a network for operating system updates.

i **NOTE:** If connecting to a secured wireless network, enter the password for the wireless network access when prompted.

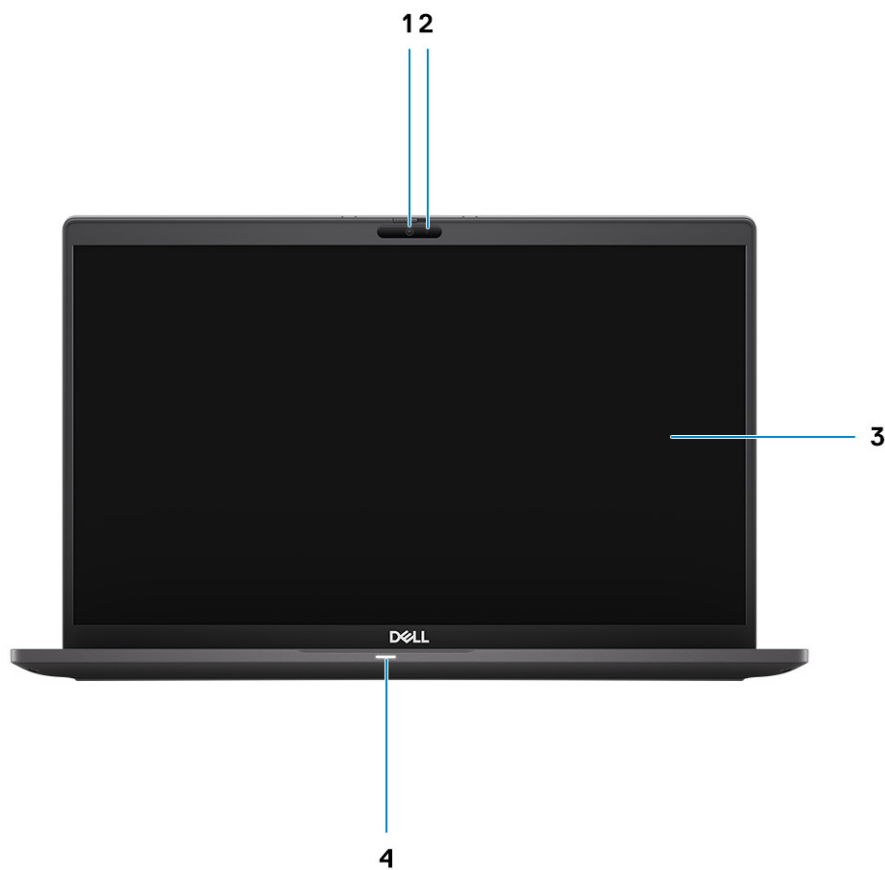
- If connected to the internet, sign-in with or create a Google account. If not connected to the internet, create an offline account.
- On the **Support and Protection** screen, enter your contact details.

Chassis overview

Topics:

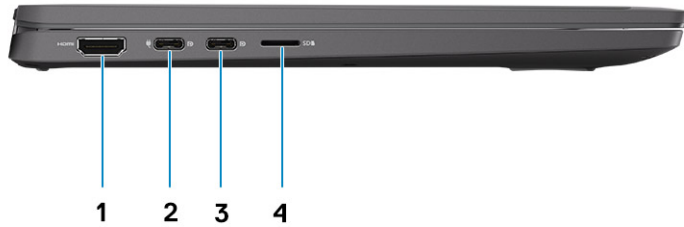
- Display view
- Left view
- Right view
- Palmrest view
- Bottom view
- Modes

Display view



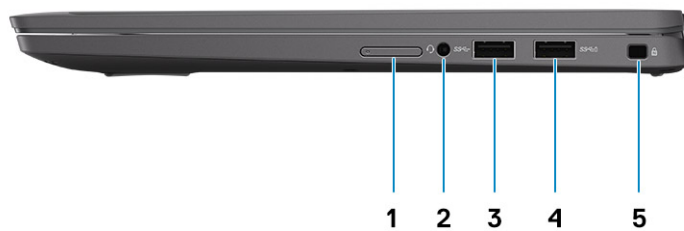
1. Camera
2. Camera Status Light
3. Display
4. LED indicator

Left view



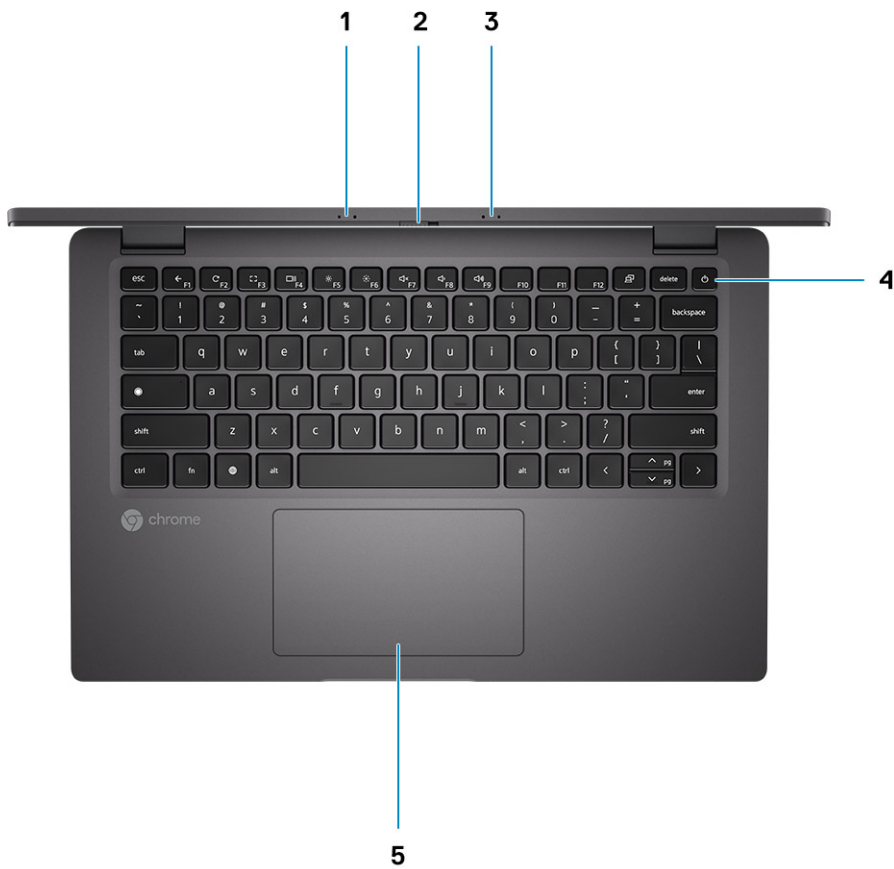
1. HDMI 2.0 port
2. USB 3.2 Gen 2 Type-C port with DisplayPort alt mode/Power Delivery
3. USB 3.2 Gen 2 Type-C port with DisplayPort alt mode/Power Delivery
4. MicroSD 4.0 card reader slot

Right view



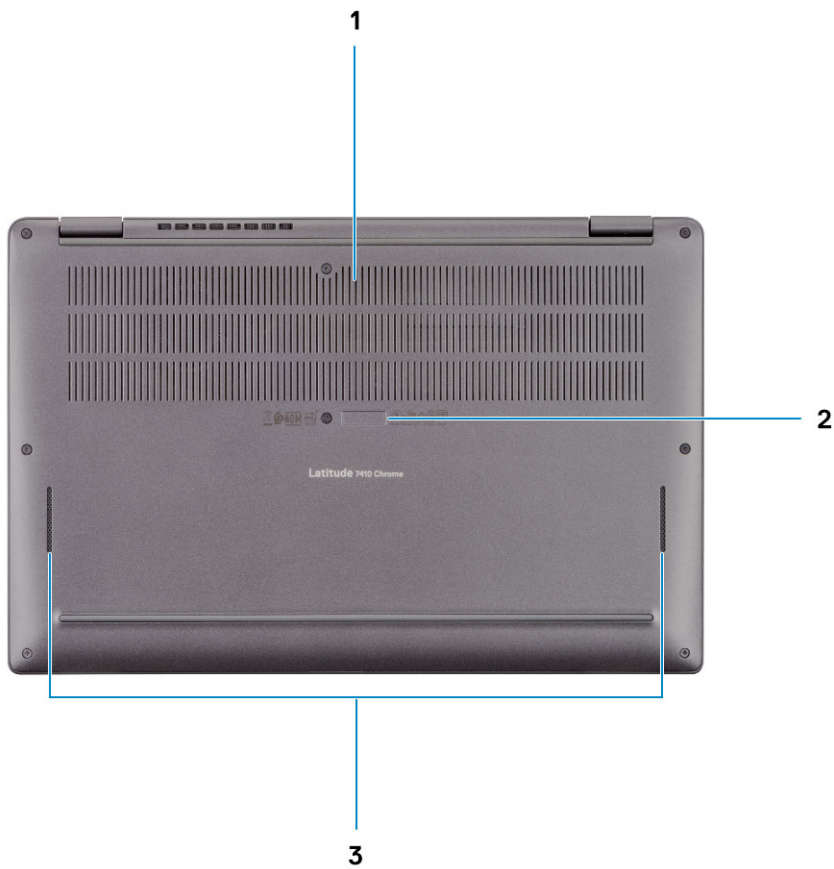
1. SIM card slot (Notebook only)
2. Universal audio jack
3. USB 3.2 Gen 1 Type-A port
4. USB 3.2 Gen 1 Type-A port with PowerShare
5. Wedge-shaped security slot

Palmrest view



1. Left microphone
2. Privacy camera shutter
3. Right microphone
4. Power button
5. Touchpad

Bottom view



1. Air vents
2. Service tag location
3. Speakers

Modes

This section illustrates various usage modes of a Dell Latitude 7410 Chromebook Enterprise Laptop and 2-in-1 computer:

Laptop mode

NOTE: This usage mode applies to both laptop and 2-in-1 configurations.



2-in-1 Modes

i NOTE: These usage mode applies 2-in-1 configurations only.

Tablet mode



Stand mode



Tent mode



Technical specifications

NOTE: Offerings may vary by region. The following specifications are only those required by law to ship with your computer. For more information about the configuration of your computer, go to Help and Support in your Windows operating system and select the option to view information about your computer.

Topics:

- [Processors](#)
- [Chipset](#)
- [Operating system](#)
- [Memory](#)
- [Storage](#)
- [Ports and connectors](#)
- [Audio](#)
- [Video](#)
- [Camera](#)
- [Communications](#)
- [Media-card reader](#)
- [Power adapter](#)
- [Battery](#)
- [Dimensions and weight](#)
- [Display](#)
- [Security](#)
- [Security Software](#)
- [Computer environment](#)

Processors

Table 1. Processors

Description	Values		
	10th Generation Intel Core i3 Processors, i3-10110U	10th Generation Intel Core i5 Processors, i5-10310U	10th Generation Intel Core i7 Processors, i7-10610U
Processors	10th Generation Intel Core i3 Processors, i3-10110U	10th Generation Intel Core i5 Processors, i5-10310U	10th Generation Intel Core i7 Processors, i7-10610U
Wattage	15 W	15 W	15 W
Core count	2	4	4
Thread count	4	8	8
Speed	2.1 GHz to 4.1 GHz	1.7 GHz to 4.4 GHz,	1.8 GHz to 4.9 GHz
Cache	4 MB	6 MB	8 MB
Integrated graphics	Intel UHD Graphics	Intel UHD Graphics	Intel UHD Graphics

Chipset

Table 2. Chipset


Description	Values
Processor	Intel 10th Generation Core i3 / i5 / i7
Chipset	Comet Lake U V1 (15W)
DRAM bus width	64-bit
PCIe bus	Gen 3

Operating system

- Chrome Operating System

Memory

Table 3. Memory specifications

Description	Values
Slots	None  NOTE: System has on-board soldered RAM
Type	DDR4
Speed	2667 MHz (Intel Core i3 / i5 / i7)
Maximum memory	16 GB
Minimum memory	8 GB
Configurations supported	<ul style="list-style-type: none">• 8 GB DDR4 at 2667 MHz (Onboard)• 16 GB DDR4 at 2667 MHz (Onboard)

Storage

Your computer supports one of the following configurations:

- M.2 2230/2280 for solid-state drive

The primary drive of your computer varies with the storage configuration. For computers:

- M.2 2230/2280 for solid-state drive

Table 4. Storage specifications

Form factor	Interface type	Capacity
M.2 2230 solid-state drive	Gen 3 PCIe x4 NVMe	Up to 256 GB
M.2 2280 solid-state drive	Gen 3 PCIe x4 NVMe	Up to 512 GB

Ports and connectors

Table 5. External ports and connectors

Description	Values
External:	
USB	<ul style="list-style-type: none"> Two USB 3.2 Gen 2 Type-C port with DisplayPort alt mode/ Power Delivery One USB 3.2 Gen 1 Type-A port with PowerShare One USB 3.2 Gen 1 Type-A port
Audio	One Universal Audio Jack
Video	One HDMI 2.0 port
Power adapter port	USB-C type
Security	One Wedge shaped lock slot
Card slot	One uSD 4.0 card slot

Table 6. Internal ports and connectors

Description	Values
Internal:	
One M.2 Key-M (2280 or 2230) for solid-state drive One M.2 3042 Key-B for WWAN One M.2 2230 Key-E for WLAN	<ul style="list-style-type: none"> One M.2 slot for 2230/2280 solid-state drive One M.2 slot for 3042 WWAN card (Notebook only) One M.2 2230 slot for Wi-Fi <p>NOTE: To learn more about the features of different types of M.2 cards, see the knowledge base article SLN301626.</p>
SIM card	uSIM card slot (Notebook only)

Audio

Table 7. Audio specifications

Description	Values
Controller	Realtek ALC3254
Stereo conversion	Supported
Internal interface	High definition audio
External interface	Universal Audio Jack
Speakers	Two
Speaker Output Average	2 W
Speaker Output Peak	2.5 W

Video

Table 8. Integrated graphics specifications

Integrated graphics			
Controller	External display support	Memory size	Processor
Intel UHD Graphics	<ul style="list-style-type: none"> One HDMI 2.0 Two USB 3.2 Gen 2 Type-C with DisplayPort 1.2 alt mode 	Shared system memory	Intel 10th Generation Core i3 / i5 / i7 processors

Camera

Table 9. Camera specifications

Narrow Border Webcam Y-2.7mm		
Description		Values
Number of cameras		One
Type		HD RGB camera
Location		Front Camera
Sensor type		CMOS sensor technology
Resolution:		
	Still image	0.92 megapixel
	Video	1280 x 720 (HD) at 30 fps
Diagonal viewing angle		74.9 degrees

Table 10. Camera specifications

Standard Border Webcam Y-6mm		
Description		Values
Number of cameras		One
Type		HD RGB camera
Location		Front Camera
Sensor type		CMOS sensor technology
Resolution		
	Still image	0.92
	Video	1280 x 720 (HD) at 30 fps
Still image		0.23 megapixel
Video		640 x 360 at 30 fps
Diagonal viewing angle		78.6 degree

Communications

Wireless module

Table 11. Wireless module specifications

Description	Values
Model number	Intel Wi-Fi 6 AX201
Transfer rate	Up to 2400 Mbps
Frequency bands supported	2.4 GHz/5 GHz
Wireless standards	<ul style="list-style-type: none"> · WiFi 802.11a/b/g · Wi-Fi 4 (Wi-Fi 802.11n) · Wi-Fi 5 (Wi-Fi 802.11ac) · Wi-Fi 6 (WiFi 802.11ax)
Encryption	<ul style="list-style-type: none"> · 64-bit/128-bit WEP · AES-CCMP · TKIP
Bluetooth	Bluetooth 5.1

Table 12. WWAN module

Feature	Specifications
Model number	Dell DW5820e Intel 7360 LTE-A
Host interface	M.2 3042 form factor
Network standard	LTE FDD/TDD, WCDMA/HSPA+, GNSS/Beidou
Transfer rate	Up to 450 Mbps DL/50 Mbps UL (Cat 9)
Operating Frequency Bands	(1,2,3,4,5,7,8,11,12,13,17,18,19,20,21,26,28,29,30,38,39,40,41,66), HSPA+ (1, 2, 4,5, 8)
Data Rate	<ul style="list-style-type: none"> · LTE FDD: 450 Mbps DL/50 Mbps UL (Cat 9) · LTE TDD: 347 Mbps DL/30 Mbps UL (Cat 9) · UMTS/HSPA+: UMTS 384 kbps DL/384 kbps UL
Power supply	DC 3.135 V to 4.4 V, Typical 3.3 V
Antenna Diversity	Supported
Radio On/Off	Supported
Wake On Wireless	Supported
Temperature	<ul style="list-style-type: none"> · Normal operating temperature: -10°C to 55°C · Extended Operating temperature: -20°C to 65°C
Antenna connector	<ul style="list-style-type: none"> · WWAN Main Antenna X 1 · WWAN Diversity Antenna X 1

Media-card reader

Table 13. Media-card reader specifications

Description	Values
Type	One uSD 4.0 card
Cards supported	<ul style="list-style-type: none"> · Micro Secure Digital (mSD) · Micro Secure Digital High Capacity(mSDHC) · Micro Secure Digital Extended Capacity(mSDXC)

Power adapter

Table 14. Power adapter specifications

Description	Values	
Type	65 W Type-C	90 W Type-C
Connector dimensions:	48.26 mm x 129.54 mm x 215.9 mm	48.26 mm x 129.54 mm x 215.9 mm
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)	1.7 A	1.50 A
Output current (continuous)	<ul style="list-style-type: none"> · 3.25 A · 3 A 	<ul style="list-style-type: none"> · 4.45 A · 3 A
Rated output voltage	<ul style="list-style-type: none"> · 20 VDC · 15 VDC · 9.0 VDC · 5.0 VDC 	<ul style="list-style-type: none"> · 20 VDC · 15 VDC · 9.0 VDC · 5.0 VDC
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

Table 15. Battery specifications

Description	Values	
Type	52 Whr	68 Whr
Voltage	7.6 VDC	11.40 VDC
Weight (maximum)	0.257 kg (0.40 lb)	0.33 kg (0.53 lb)
Dimensions:		
Height	251.00 mm (9.88 in.)	292.20 mm (11.50 in.)
Width	85.80 mm (3.37 in.)	99.50 mm (3.91 in.)

Table 15. Battery specifications (continued)

Description		Values	
	Depth	5.00 mm (0.19 in.)	8.90 mm (0.35 in.)
Temperature range:			
	Operating	0°C to 70°C (32°F to 158°F)	0°C to 70°C (32°F to 158°F)
	Storage	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 149°F)
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.
Charging time (approximate)		<ul style="list-style-type: none"> · Express: 2 Hrs · Standard: 3 Hrs 	<ul style="list-style-type: none"> · Express: 2 Hrs · Standard: 3 Hrs
Life span (approximate)		300 discharge/charge cycles	300 discharge/charge cycles
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.

Dimensions and weight

Table 16. Dimensions and weight

Description		Values
Height:		
	Front	<ul style="list-style-type: none"> · Notebook, CF: 16.93 mm (0.66 in.) · Notebook, AL: 16.54 mm (0.65 in.) · 2-in-1, AL: 15.78 mm (0.62 in.)
	Rear	<ul style="list-style-type: none"> · Notebook, CF: 18.36 mm (0.72 in.) · Notebook, AL: 17.95 mm (0.70 in.) · 2-in-1, AL: 18.14 mm (0.71 in.)
Width		321.35 mm (12.65 in.)
Depth		<ul style="list-style-type: none"> · Notebook, CF: 211.78 mm (8.33 in.) · Notebook, AL: 211.70 mm (8.33 in.) · 2-in-1, AL: 211.48 mm (8.32 in.)
Weight		<ul style="list-style-type: none"> · Notebook, CF: 1.39 kg (3.07 lb) · Notebook, AL: 1.52 kg (3.36 lb) · 2-in-1, AL: 1.63 kg (3.60 lb) <p>NOTE: The weight of your notebook depends on the configuration ordered and the manufacturing variability.</p>

Display

Table 17. Display specifications

Decription	Values				
Type	Full High Definition (FHD)	Full High Definition (FHD)	Full High Definition (FHD)	Full High Definition (FHD)	Ultra-High Definition (UHD)

Table 17. Display specifications (continued)

Description		Values				
Panel technology		WVA (wide view angle)	WVA (wide view angle)	WVA (wide view angle)	WVA (wide view angle)	WVA (wide view angle)
Luminance (typical)		300 nits	300 nits	300 nits	300 nits	400 nits
Dimensions (active area):						
	Height	173.95 mm (6.84 in.)	173.95 mm (6.84 in.)	173.95 mm (6.84 in.)	173.95 (6.84 in.)	173.95 mm (6.84 in.)
	Width	309.40 mm (12.17 in.)	309.40 mm (12.17 in.)	309.40 mm (12.17 in.)	309.4 (12.17 in.)	309.40 mm (12.17 in.)
	Diagonal	355.60 mm (14.00 in.)	355.60 mm (14.00 in.)	355.60 mm (14.00 in.)	355.6 (14.00 in.)	355.60 mm (14.00 in.)
Native resolution		1920 x 1080	1920 x 1080	1920 x 1080	1920x1080	3840x2160
Megapixels		2.0736	2.0736	2.0736	2.0736	8.2944
Color gamut		NTSC 72% Typ.	NTSC 72% Typ.	NTSC 72% Typ.	sRGB 100%	sRGB 100%
Pixels per inch (PPI)		157.3	157.3	157.3	157.3	314.7
Contrast ratio (min)		1000:1	600:1	600:1	1000:1	1000:1
Response time (max)		35 ms	35 ms	35 ms	35 ms	40 ms
Refresh rate		60 Hz	60 Hz	60 Hz	60 Hz	60 Hz
Horizontal view angle		80 degrees	80 degrees	80 degree	80 degree	80 degrees
Vertical view angle		80 degrees	80 degrees	80 degree	80 degree	80 degrees
Pixel pitch		0.161 mm	0.161 mm	0.161 mm	0.161 mm	0.0805 mm
Power consumption (maximum)		2.2 W	4.1 W	2.4 W	1.8 W	3.75 W
Anti-glare vs glossy finish		Anti-glare	Anti-glare	Anti-glare	AR/AS	Anti-glare
Touch options		No	Yes	No	Yes	No
Stylus Support		No	Yes	No	Yes	No

Security

Table 18. Security specifications

Features	Specifications
Google H1 security chip (TPM 2.0 compatible)	Integrated on system board
Fingerprint reader	Not Supported
Wedge-shaped lock slot	Standard

Security Software

Table 19. Security Software specifications

Specifications
VMware Workspace ONE

Computer environment

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

Table 20. 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)	-15.2 m to 3048 m (4.64 ft to 5518.4 ft)	-15.2 m to 10668 m (4.64 ft to 19234.4 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.

Software

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

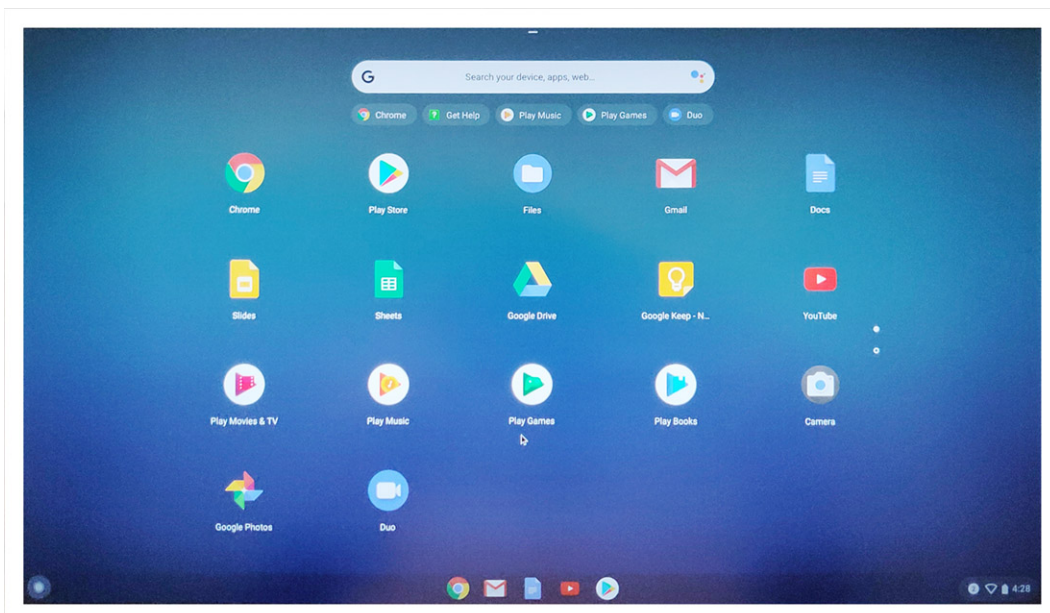
Topics:

- [Operating system](#)
- [View system information](#)

Operating system

This page contains information about the operating system used by the Dell Latitude 7410 Chromebook Enterprise.

Chrome OS



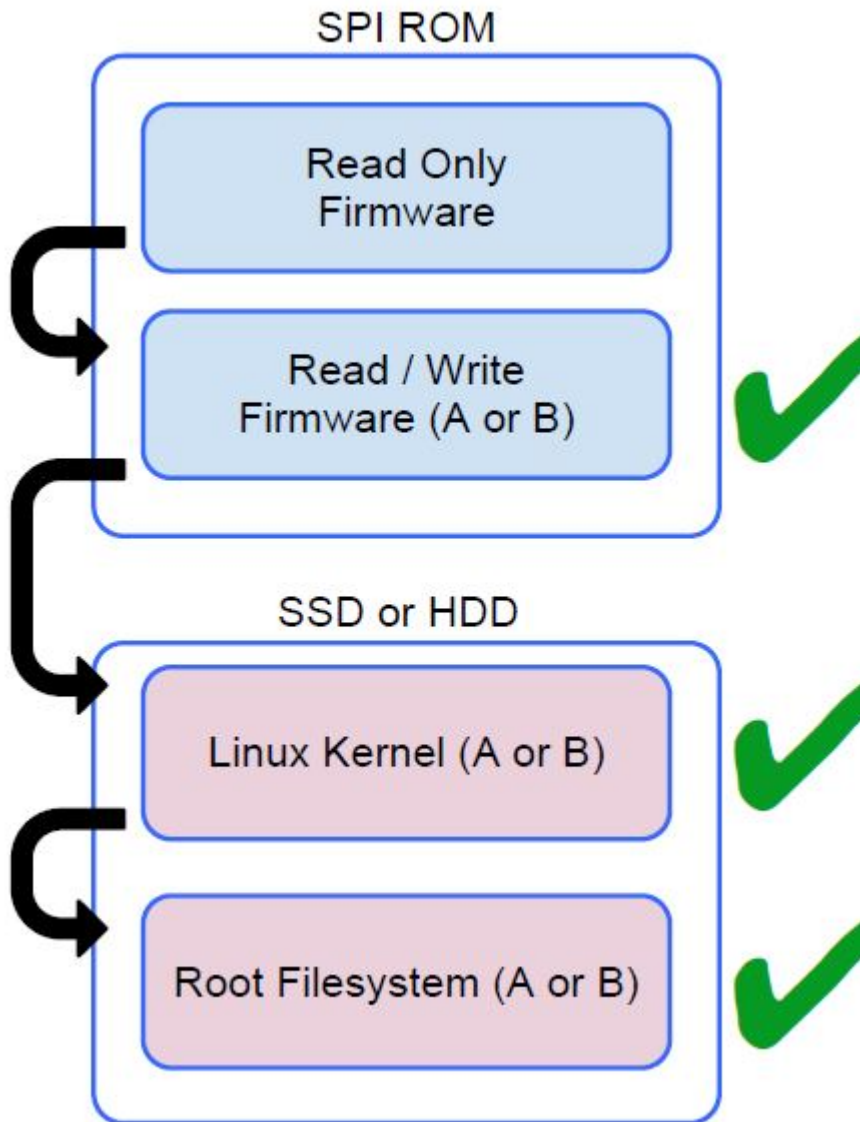
Chromebooks are powered by the Google Chrome operating system, based on Google's popular Chrome browser. It has been developed to provide a fast, simple, and more secure computing experience for users who spend most of their time online.

Key Benefits

- Speed
- Simplicity
- Security
- Updatability
- Synchronisability
- High power at low cost
- Easy to learn and use
- Documents, calendar, e-mail, contacts, and tasks available online and offline, and all securely backed-up and synchronised in the cloud.
- Access to the Chrome web app store
- Killer web apps
- The latest Intel Core processors
- Fun games
- Built-in support for popular file types and external devices

For more information about the Chrome OS, please visit the [Chrome OS training page](#).

Verified Boot

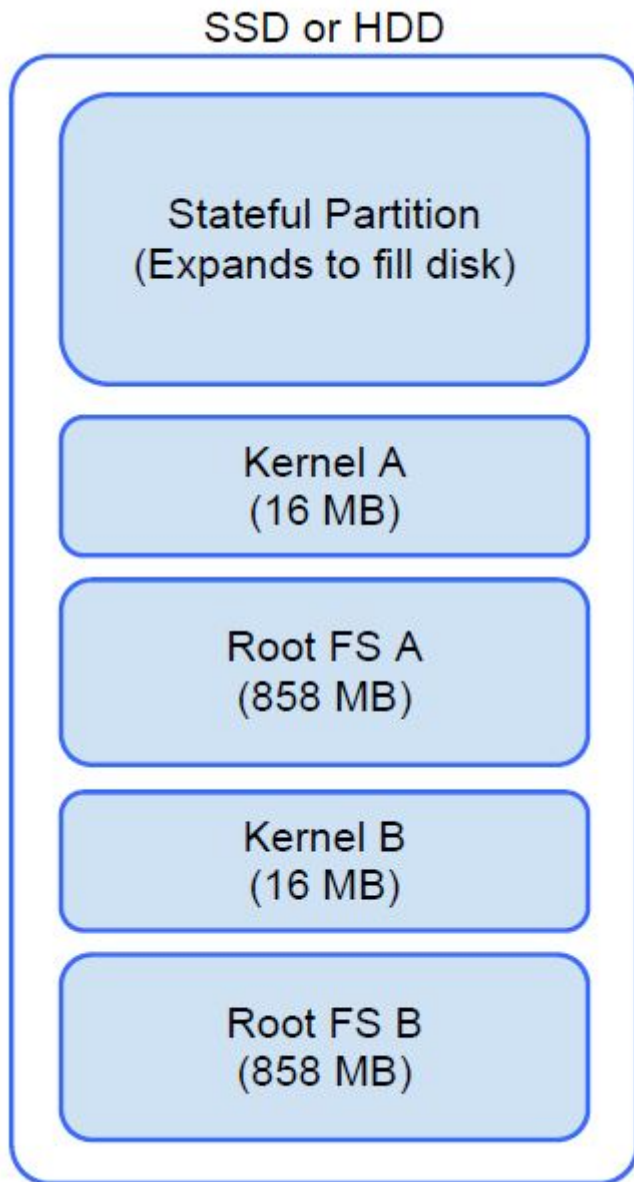


Read Only firmware verifies the integrity of Read/Write (R/W) firmware. R/W firmware verifies the active Linux kernel. During run time, the kernel verifies each block read from disk.

If a verification step fails and there is no backup option, the machine enters recovery mode.

The Developer Mode switch turns off verified boot (at the Kernel stage) to enable users to run Chromium OS (or other OS). The BIOS is always verified.



Disk Partition Map



There are two copies of Chrome OS on disk: an active copy and a backup copy. Each copy consists of a kernel partition and a root file system. The backup copy is updated automatically in the background. Users only need to reboot. The partition contains encrypted user data and is also used in the factory for storing test software.

Developer and Recovery mode

Table 21. Developer and Recovery mode

Developer Mode	Recovery Mode
<p style="text-align: center;">Developer Mode BIOS screen</p> 	<p style="text-align: center;">Recovery Mode BIOS screen</p> 
<ul style="list-style-type: none"> • Used to boot without verification. • Can be turned on via key combination during boot. • Stateful partition is wiped during transitions. • Used in the factory to boot test image. 	<ul style="list-style-type: none"> • Allows a user to reinstall the Chrome OS from a USB key or SD card. • Recovery mode is entered if verified boot fails. • A user can force recovery mode via a key combination during boot.

Coreboot and U-boot Custom Firmware

Coreboot (x86 only)

- Memory and chipset initialization
- Open-source, except for MRC binary from Intel.

U-Boot

- Performs verified boot
- Handles recovery and Developer Mode
- Open source code

Normal boot is very fast, as it takes less than 1 second to start loading kernel. Chromebook does not boot other operating systems such as Windows or OS X.

Chrome vs Chromium OS

Table 22. Difference between Chromium and Chrome OS

Difference between Chromium and Chrome OS	
Chromium OS	Chrome OS
<ul style="list-style-type: none"> • Is an open source project: http://www.chromium.org/chromium-os • Runs on regular PCs and Chrome devices 	<ul style="list-style-type: none"> • Is based on Chromium OS • Only runs on the Chrome devices with required hardware features (TPM, RO firmware, recovery button, developer switch). • Includes additional licensed features such as the Netflix plugin, video codecs, and fonts

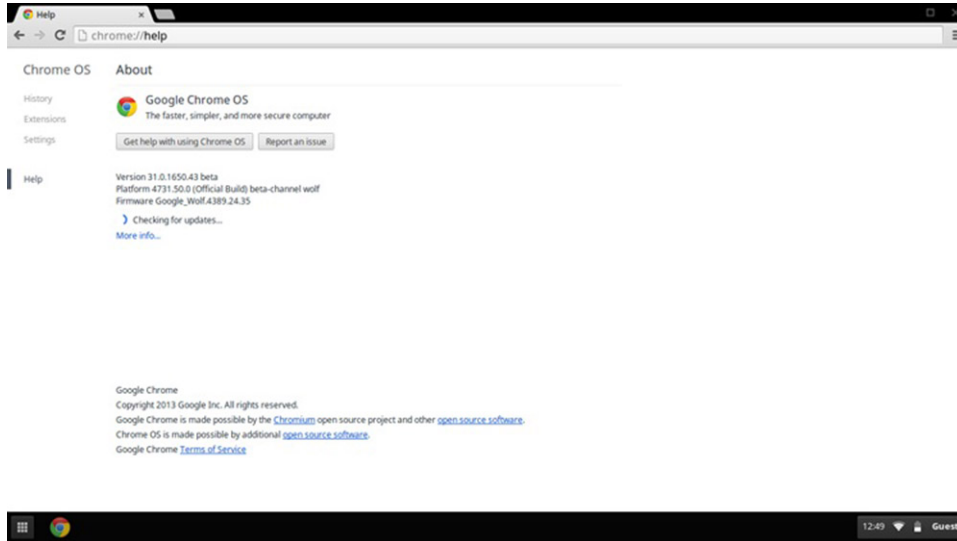
View system information

This page contains all the information about viewing system information for the Dell Latitude 7410 Chromebook Enterprise.

Dell Latitude 7410 Chromebook Enterprise does not support Dell BIOS. Hence, there are several ways to check system specifications depending on the information you are searching for. The table below lists some of the most commonly used methods to view system information and specifications.

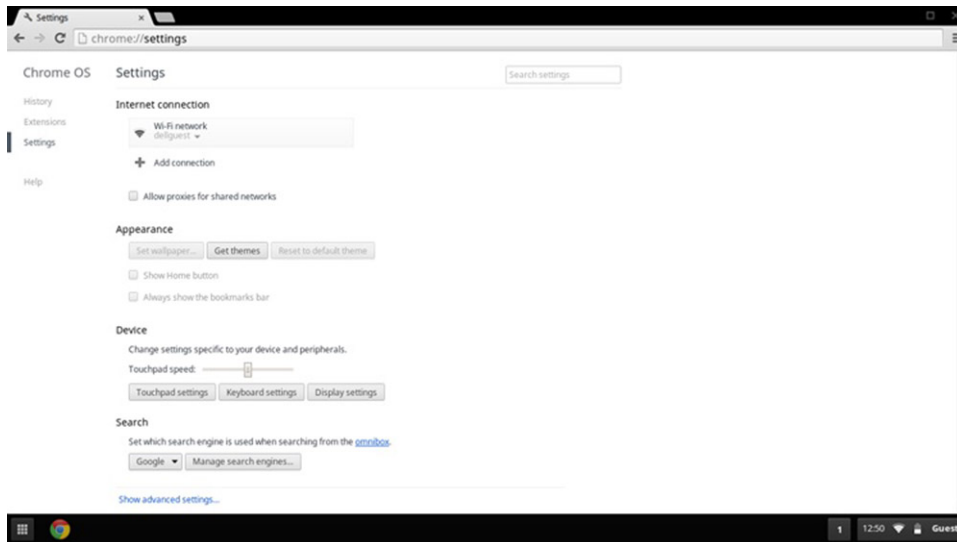
Command **Chrome:help**

Action and Purpose: View basic OS information.



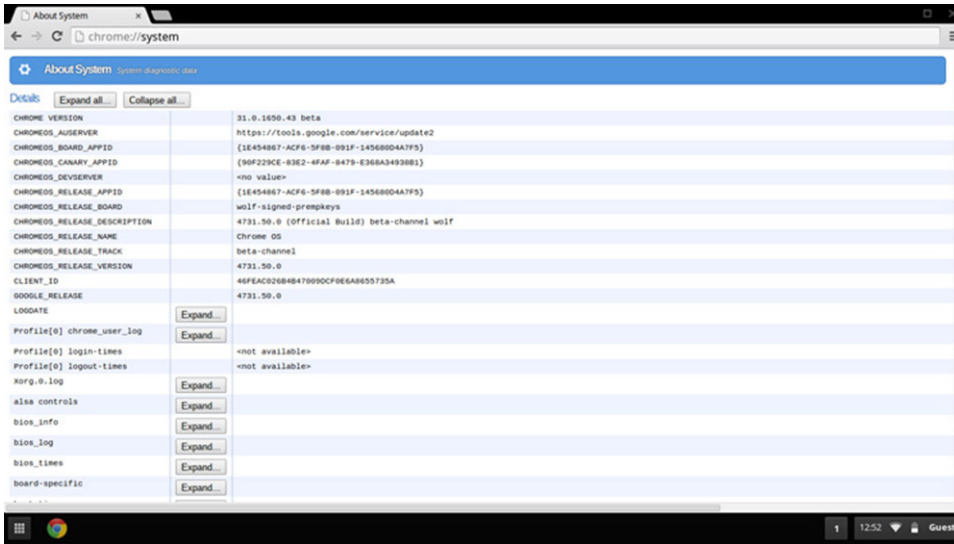
Command **Chrome:settings**

Action and Purpose: View information such as screen resolution options (Device>Display settings), touchpad, and other basic hardware information.



Command **Chrome:system**

Action and Purpose: View advanced system information such as the Google Chrome version, BIOS information, CPU information, memory information, network status, power supply information, etc.



Command **Chrome:net-internals**

Action and Purpose: View advanced networking information.

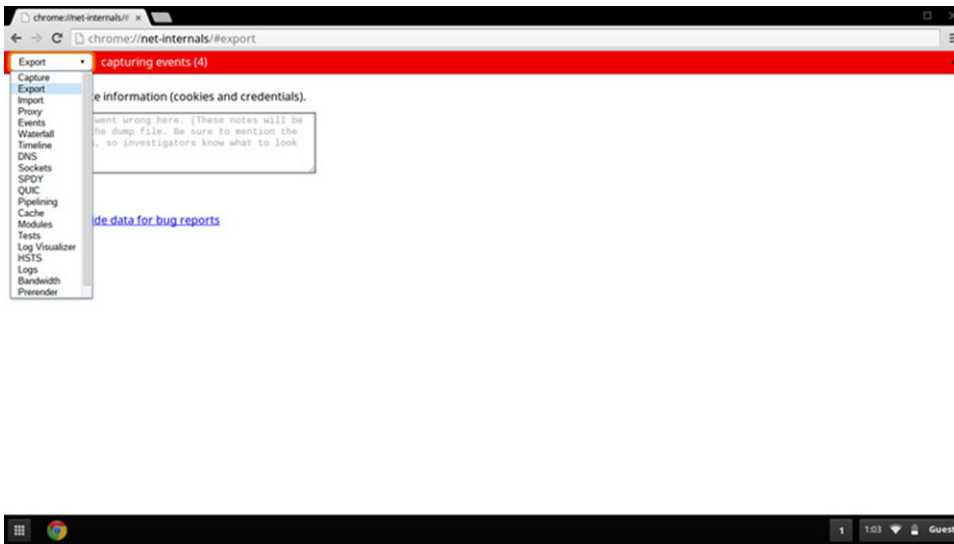


Table 23. View system information

Commands	Action and Purpose	Screenshot
Chrome:net-internals	View advanced networking information.	


Getting help

Topics:

- [Contacting Dell](#)

Contacting Dell

Prerequisites

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

About this task

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

Steps

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