Inspiron 3181 2-in-1

Setup and Specifications

Notes, cautions, and warnings

ⓘ | **NOTE: A NOTE indicates important information that helps you make better use of your product.**

⚠ | **CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.**

⚠ | **WARNING: A WARNING indicates a potential for property damage, personal injury, or death.**

Contents

Set up your Chromebook

1   Connect the power adapter and press the power button.

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

2   On the Welcome screen, select your language, keyboard layout, and choose which network to which the device will be connected. If the network is secure, you will need to enter the proper password. After making these choices, click **Let's go**.

3   The next screen will display the Chrome OS terms of agreement. There will be a check box to allow automatic usage statistics and crash reports to be sent to Google. You may choose to opt out of this if you wish. You must click **Accept and continue** to complete the setup.

4   The next screen allows you to sign in using your Google account. If you do not have a Google account, you can create one at this point or you can choose to continue and browse as a guest.

ⓘ **NOTE: When the device is set for enterprise enrollment, you will not be able to register the device until you coordinate with your network administrator or cancel enterprise enrollment by pressing CTRL + Alt + E.**

5   After entering your Google account information, you should be at the Chrome desktop. There will be icons for Google Apps, the Chrome Browser, Gmail, Google Search (which also launches the Chrome Browser), Google Docs, You Tube, and the Get Started app.

Chromebook recovery

This page contains information about recovering Dell Chromebook.

Recovering the Chromebook

Install a new version of the Chrome operating system on your Chromebook by going through the recovery process. You may want to go through this process if you are having problems updating your Chromebook or if it stops working.

ⓘ **NOTE: All account information and data stored on your Chromebook, such as photos, downloaded files, and saved networks, will be deleted. Owner privileges for your primary account will also be reset. However, the actual Google Accounts and any data synced to these accounts are not affected by the recovery process. After the recovery process is complete, you will be guided through the initial setup again.**

Prerequisites:

Before starting this process, you need the following:

- A Chrome device, Windows, Mac, or the Linux computer with administrative rights.
- A 4 GB or larger USB flash drive or SD card.

Step 1: Check for the "Chrome OS is missing or damaged" message

If you see this message, you can first try to perform a hard reset on your Chromebook by pressing Refresh + Power. If you still see this message after performing a hard reset, please proceed to Step 2.

If you see the **Chrome OS verification is turned off** message, refer to Chrome OS verification is turned off message section below.

Step 2: Create the recovery USB flash drive or SD card

Insert a USB flash drive or SD card into your computer and follow the instructions below:

Table 1. Chromebook recovery

Operating System	Instructions
Chrome Device Instructions	Create a recovery flash drive by using the Image Burner. The tool may not be available in all languages. 1 Type chrome://imageburner into the omnibox (browser's address bar) . 2 Run the tool and follow the instructions that appear on your screen. ⓘ **NOTE: When recovering your Chromebook, make sure to create the recovery flash drive on the same model.**
Windows Instructions	1 Click this link to download the Recovery Tool.

Operating System	Instructions
	2 Run the tool and follow the instructions that appear on your screen.
	3 After you recover your Chromebook, you must format your USB flash drive or SD card using the Recovery Tool. If you do not format your USB flash drive or SD card, you will not be able to use all the storage space on your external device. Additionally, your USB flash drive or SD card may not be recognizable by Windows.
Mac Instructions	Create a recovery flash drive by using the Recovery Tool. The tool may not be available in all languages. 1 Click this link to download the Recovery Tool. 2 Run the tool and follow the instructions that appear on your screen. After the process is complete, you might see an alert saying your USB drive or SD card is unreadable. If this fails, try removing and reinserting your USB drive or SD card. Your USB drive or SD card should now be ready to use for recovery.
Linux Instructions	Create a recovery flash drive by using the Recovery Tool. The tool may not be available in all languages. 1 1.Click this link to download the Recovery Tool. 2 Modify the script permissions to allow execution with the following command: **$ & sudo chmod 755 linux_recovery.sh.** 3 Run the script with root privileges with the following command:**$ sudo bash linux_recovery.sh.** 4 Follow the prompts from the tool to complete building the operating system image.

Reinstall the Chrome Operating System

1 Start your Chromebook.

2 When the **Chrome OS is missing or damaged** screen appears, insert the USB flash drive or SD card you created into the USB port or SD card slot on your Chrome device.

3 Wait for the Chromebook to boot up from the flash drive.

4 Follow the instructions that appear on the screen.

5 On successful installation of the Chrome operating system, you will be prompted to remove the USB flash drive or SD card.

6 Remove the USB flash drive or SD card when prompted, and your Chromebook will automatically restart.

You should now be able to start your Chromebook as normal. Because the data stored on your Chromebook has been cleared, you will need to go through the initial setup again. Make sure you sign in with your primary Google Account, because this account will be set as the owner account.

"Chrome OS verification is turned off" Message

By default, Chromebooks are set to the normal user mode. If you've set the user mode to developer mode instead, you'll see a screen with the message "Chrome OS verification is turned off" when you start up. Use the developer mode if you want to test your own version of the Chrome operating system.

Press **Ctrl+D** to enter developer mode. If you press the space bar instead, you'll see a screen asking to recover your device.

Troubleshooting Tips

Table 2. Troubleshooting tips

| Question	Solution
I am unable to recover my Chromebook	To help ensure that you are running the latest version of Chrome OS once you recover your Chromebook, we recommend creating the recovery media with the latest version of Chrome OS and avoid using recovery media that may contain an older version of the operating system.
An error message **An unexpected error has occurred.**	Try the following steps: 1　Confirm that you successfully completed all instructions exactly as specified in Step 2: Create the recovery USB flash drive or SD card above. 2　Try using a different USB stick or SD card. 3　If the problem persists, contact Google Chrome support team.
An error message **You are using an out-of-date Chrome OS recovery image.**	You should download an up-to date recovery image. Simply follow all the instructions exactly as specified in Step 2 above.
You successfully recovered your Chromebook but now you can not use your USB or SD card with Windows	After you have completed recovery, you need to format your USB or SD card using the recovery tool.
You successfully recovered your Chromebook but now Windows does not recognize the whole size of the USB or SD card used for recover.	After you have completed recovery, you need to format your USB or SD card using the recovery tool.

Views of Inspiron 3181 2-in-1

Front

1 **Speakers**

Provide audio output.

Right
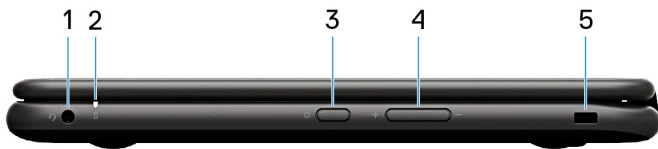
1 **Headset port**

Connect headphones or a headset (headphone and microphone combo).

2 **Power and battery-status light**

Indicates the power state and battery state of the computer.

Solid white—Power adapter is connected and the battery is charging.

Solid amber—Battery charge is low or critical.

Off—Battery is fully charged.

3 **Power button**

Press to turn on the computer if it is turned off, in sleep state, or in hibernate state.

Press to put the computer in sleep state if it is turned on.

Press and hold to force shut-down the computer.

ⓘ **NOTE: You can customize the power-button behavior in Power Options. For more information, see** *Me and My Dell* **at www.dell.com/support/manuals.**

4 **Volume-control button**

Press to increase or decrease the volume.

5   **Security-cable slot (for Noble locks)**

Connect a security cable to prevent unauthorized movement of your computer.

Left

1   **Power-adapter port**

Connect a power adapter to provide power to your computer.

2   **microSD-card slot**

Insert a microSD card to expand the computer's storage capacity.

3   **HDMI port**

Connect to a TV or another HDMI-in enabled device. Provides video and audio output.

4   **USB 3.1 Gen 1 ports (2)**

Connect peripherals such as external storage devices and printers. Provides data transfer speeds up to 5 Gbps.

Base

1   **Left-click area**

Press to left-click.

2   **Touchpad**

Move your finger on the touchpad to move the mouse pointer. Tap to left-click and two finger tap to right-click.

3   **Right-click area**

Press to right-click.

Display

1 **Camera**

Enables you to video chat, capture photos, and record videos.

2 **Camera-status light**

Turns on when the camera is in use.

3 **Microphone**

Provides digital sound input for audio recording, voice calls, and so on.

Bottom

1 **Service Tag label**

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

Modes

Notebook

Tablet

Stand

Tent

Specifications of Inspiron 3181 2-in-1

Computer model

Inspiron 3181 2-in-1

Dimensions and weight

Table 3. Dimensions and weight

Height:	
Front	20.75 mm (0.81 in)
Rear	20.75 mm (0.81 in)
Width	303.80 mm (11.96 in)
Depth	207.90 mm (8.18 in)
Weight (maximum)	1.44 kg (3.17 lb)

> ⓘ **NOTE: The weight of your computer depends on the configuration ordered and the manufacturing variability.**

Processors

Table 4. Processor specifications

Processor	Intel Celeron Processor N3060
Wattage	6 W
Core count/Thread count	2/2
Speed	Up to 1.6 GHz, 2.48 GHz Boost
L2 cache	2 MB
L3 cache	Not supported
Integrated graphics	Intel HD Graphics 400 GPU

Chipset

Table 5. Chipset specifications

Chipset	Integrated on the processor
DRAM bus width	64 bits
Flash EPROM	8 MB
PCIe bus	Up to Gen2
External bus frequency	Up to 5 GT per second

Operating system

Chrome OS

Memory

Table 6. Memory specifications

Slots	On board RAM
Type	LPDDR3
Speed	1600 MHz
Maximum memory	4 GB

Ports and connectors

Table 7. Ports and connectors specifications

External:

USB	Two USB 3.1 Gen 1 ports
Audio	One Microphone/headphone/headset Combo port
Video	One HDMI-out 1.4 port
Memory card reader	One MicroSD-card slot
Power adapter port	One power-adapter port
Security	Noble lock

Communications

Ethernet

Table 8. Ethernet specifications

Model number	Not supported
Transfer rate	Not supported

Wireless module

Table 9. Wireless module specifications

Model number	Intel Dual Band Wireless-AC 7265
Transfer rate	867 Mbps
Frequency bands supported	2.4 GHz/5 GHz
Wireless standards	Wi-Fi 802.11ac
Encryption	• 64-bit/128-bit WEP • AES-CCMP • TKIP
Bluetooth	Bluetooth 4.2

Audio

Table 10. Audio specifications

Type	High-Definition-Audio
Controller	Realtek ALC3256
Stereo conversion	Supported
Internal interface	12S
External interface	Headset combo jack (stereo headphones/microphone-in)
Speakers	Supported
Internal speaker amplifier	Supported
External volume controls	Supported

Speaker output:

	Average	2 W
	Peak	2.5 W
Subwoofer output		Not supported
Microphone		Supported

Storage

Table 11. Storage specifications

Storage type	Interface type	Capacity
One embedded multimedia card (eMMC)	eMMC	• 32 GB • 64 GB

Media-card reader

Table 12. Media-card reader specifications

Type	One MicroSD-card slot
Cards supported	MicroSD

Keyboard

Table 13. Keyboard specifications

Type	Standard non-backlit keyboard
Layout	QWERTY
Number of keys	• United States and Canada: 74 keys • United Kingdom: 75 keys
Size	• X = 19.05 mm key pitch • Y = 18.05 mm key pitch

Keyboard

Dell Chromebook keyboards have a few extra features to help you browse the web effortlessly and efficiently. The keyboard contains a dedicated search key and a new row of web shortcut keys. A standard USB Windows keyboard can also be used with the Chromebook,

using the same keyboard shortcuts. The image below shows the keyboard layout.
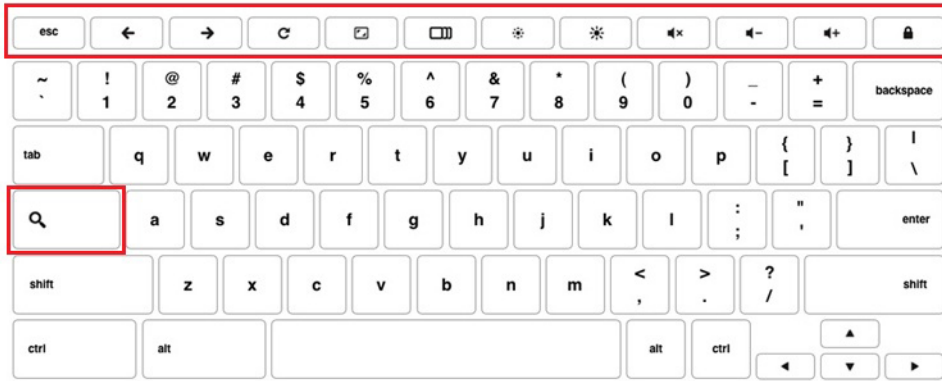
Keyboard keys function

The Chrome device keyboard is designed to help you get to the things you need the most. The table below is an overview of the special keys on the top row of the keyboard:

Table 14. Special keys

Special keys

←	Go to the previous page in browser history
→	Go to the next page in browser history
C	Reload current page
	Enter Immersive mode, which hides the tabs and launcher
	Enter Overview mode, which shows all windows
	Decrease screen brightness
	Increase screen brightness
◄×	Mute
◄−	Decrease the volume
◄+	Increase the volume

Special keys

🔍	Search applications and the web at the same time. On a Chromebook, this key is on the side, where the Caps Lock key is normally located.

Keyboard shortcut keys

Table 15. Shortcut keys

Shortcut keys	
Function	Combination keys
Page up	Press Alt and the up arrow
Page down	Press Alt and the down arrow
Home	Press Ctrl+Alt, and the up arrow
End	Press, Ctrl+Alt and the down arrow
Delete	Press Alt+Backspace
Toggle the bookmark bar	Ctrl+Shift+B
Search current webpage	Ctrl+F
Open a new tab	Ctrl+T
Open a new window	Ctrl+N
Open the link you clicked in a new background tab	Press Alt and click a link
Switch to next tab	Ctrl+Tab
Switch to next window	Switch to next window
Sign out of Google Account	Ctrl+Shift+Q
Close current tab	Ctrl+W

To see more shortcuts, simply press Ctrl+Alt+? To open the keyboard viewer on your screen.

Camera

Table 16. Camera specifications

Number of cameras	One
Type	One HD fixed focus
Location	Front
Sensor type	CMOS sensor technology
Resolution:	
Still image	1280 x 720 (HD)
Video	1280 x 720 (HD) at 30 fps

| Diagonal viewing angle: | 75.2 degrees |

Touchpad

Table 17. Touchpad specifications

Resolution	
Horizontal	3061
Vertical	1637
Dimensions:	
Horizontal	100 mm (3.93 in)
Vertical	55 mm (2.16 in)

Touchpad

This page contains information for Dell Chromebook touchpad gestures.

The following table lists some gestures and actions supported by the Chromebook touchpad:

Table 18. Touch pad gestures

Touchpad gestures	
Gestures	Explanation
	Simply move your finger across the touchpad.
	Press down on the lower half of the touchpad. Since tap-to-click is enabled by default, you can quickly tap the touchpad to click.
	Click the touchpad with two fingers.

Place two fingers on the touchpad and move them up and down to scroll vertically, left and right to scroll horizontally. If you have Australian scrolling enabled, move two fingers up to scroll down. (It works in the same way as say, your smartphone or tablet.) If you have multiple browser tabs open, you can also swipe left and right with three fingers to quickly move between tabs.

Swipe   Quickly move two fingers left or right to go backward or forward on web pages or while using apps.

Click the item you want to move with one finger. With a second finger, move the item. Release both fingers to drop the item at its new location.

Power adapter

Table 19. Power adapter specifications

Type	65 W
Diameter (connector)	7.4 mm
Input voltage	100 VAC-240 VAC
Input frequency	50 Hz-60 Hz
Input current (maximum)	1.5 A
Output current (continuous)	3.34 A
Rated output voltage	19.50 VDC
Temperature range:	
Operating	0°C to 40°C (32°F to 104°F)
Storage	−40°C to 70°C (−40°F to 158°F)

Battery

Table 20. Battery specifications

Type	3-cell "smart" lithium-ion (42 WHr)
Voltage	11.40 VDC
Weight (maximum)	0.2 kg (0.44 lb)

Dimensions:

	Height	5.90 mm (0.23 in)
	Width	97.15 mm (3.82 in)
	Depth	184.15 mm (7.25 in)

Temperature range:

	Operating	0°C to 35°C (32°F to 95°F)
	Storage	–20°C to 65°C (–40°F to 149°F)

Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.
Charging time (approximate)	• 0~15°C : 4 hours • 16~60°C : 3 hours • 46~60°C : 3 hours

> (i) **NOTE: Control the charging time, duration, start and end time, and so on using the Dell Power Manger application. For more information on the Dell Power Manger see,** *Me and My Dell* **on** https://www.dell.com/

Life span (approximate)	1 year warranty for 300 cycles discharge/charge cycles
Coin-cell battery	CR-2032

Display

Table 21. Display specifications

Type	11.6-inch HD touch
Panel technology	HD Anti-finger
Luminance (typical)	200 nits

Dimensions (active area):

	Height	144 mm (5.70 in)
	Width	256.12 mm (10.08 in)
	Diagonal	293.83 mm (11.60 in)

Native resolution	1366 x 768
Pixels Per Inch (PPI)	135
Contrast ratio (minimum)	16:9
Response time (maximum)	20 msec rise/fall

Refresh rate	60 Hz
Horizontal view angle	+/-80 degrees
Vertical view angle	+/-80 degrees
Pixel pitch	0.1875 mm
Power consumption (maximum)	3.0 W
Anti-glare vs glossy finish	Anti-finger
Touch options	Yes

Video

Table 22. Integrated graphics specifications

The following table provides the detailed integrated graphics specifications of Inspiron 3181 2-in-1.

Controller	External display support	Memory size	Memory type
Intel HD Graphics	One HDMI port	Shared system memory	System memory

Computer environment

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

Table 23. 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 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 3,048 m (−50 ft to 10,000 ft)	−15.2 m to 10,668 m (−50 ft to 35,000 ft)

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

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

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

Contacting Dell

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

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

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