

Inspiron 7591 2n1

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.

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Set up your Inspiron 7591 2n1

NOTE: The images in this document may differ from your computer depending on the configuration you ordered.

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



NOTE: To conserve battery power, the computer might enter power saving mode (sleep state). Connect the power adapter and press the power button to turn on the computer.




2. Finish Windows setup.

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

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

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

Table 1. Locate Dell apps

Resources	Description
	<p>My Dell</p> <p>Centralized location for key Dell applications, help articles, and other important information about your computer. It also notifies you about the warranty status, recommended accessories, and software updates if available.</p>
	<p>SupportAssist</p> <p>Pro-actively checks the health of your computer's hardware and software. The SupportAssist OS Recovery tool troubleshoots issues with the operating system. For more information, see the SupportAssist documentation at www.dell.com/support.</p> <p>NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.</p>
	<p>Dell Update</p> <p>Updates your computer with critical fixes and latest device drivers as they become available. For more information about using Dell Update, see the knowledge base article SLN305843 at www.dell.com/support.</p>

Resources

Description



Dell Digital Delivery

Download software applications, which are purchased but not pre-installed on your computer. For more information about using Dell Digital Delivery, see the knowledge base article [153764](#) at www.dell.com/support.

Views of Inspiron 7591 2n1

Right



1. USB 3.1 Gen 1 ports (2)

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

2. Headset port

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

Left



1. Power-adaptor port

Connect a power adapter to provide power to your computer.

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.

NOTE: On certain computer models, the power and battery-status light is also used for system diagnostics. For more information, see the *Troubleshooting* section in your computer's *Service Manual*.

3. HDMI port

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

4. Thunderbolt 3 (USB Type-C) port with Power Delivery

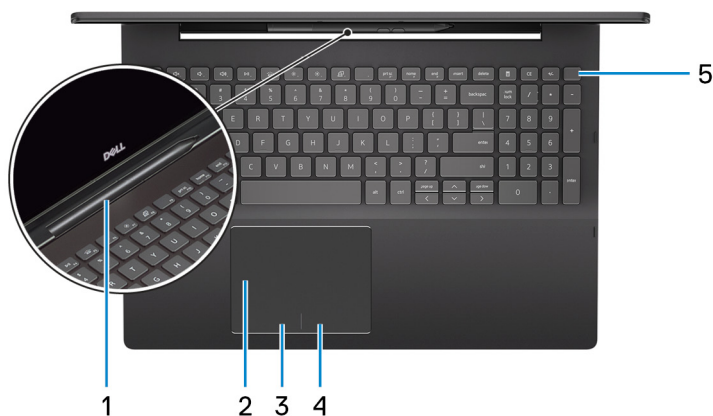
Supports USB 3.1 Gen 2, DisplayPort 1.4, Thunderbolt 3 and also enables you to connect to an external display using a display adapter. Provides data transfer rates up to 10 Gbps for USB 3.1 Gen 2 and up to 40 Gbps for Thunderbolt 3. Supports Power Delivery that enables two-way power supply between devices. Provides up to 5 V power output that enables faster charging.

NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.

5. microSD-card slot

Reads from and writes to the microSD-card.

Base



1. Active-pen slot

Dock the active pen into the slot after use.

NOTE: The active-pen slot is optional and not available for all configurations.

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. Left-click area

Press to left-click.

4. Right-click area

Press to right-click.

5. Power button with fingerprint reader

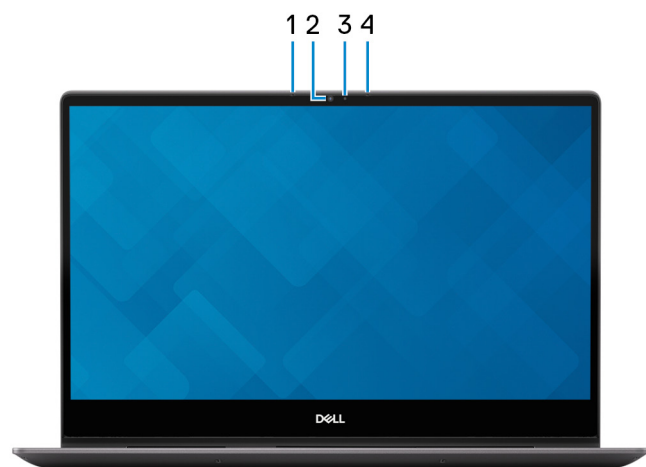
Press to turn on the computer if it is turned off, in sleep state, or in hibernate state.

When the computer is turned on, press the power button to put the computer into sleep state; press and hold the power button for 10 seconds to force shut-down the computer.

Place your finger on the power button to log-in with the fingerprint reader.

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

Display



1. Left microphone

Provides digital sound input for audio recording and voice calls.

2. Camera

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

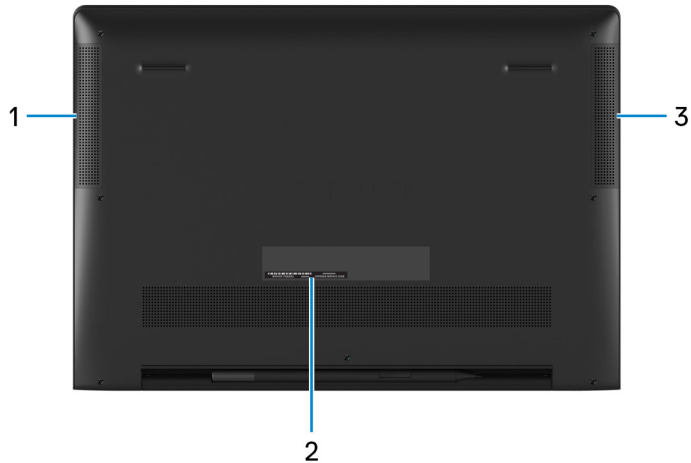
3. Camera-status light

Turns on when the camera is in use.

4. Right microphone

Provides digital sound input for audio recording and voice calls.

Bottom



1. Left speaker

Provides audio output.

2. 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.

3. Right speaker

Provides audio output.

Modes

Notebook



Tablet



Stand



Tent



Specifications of Inspiron 7591 2n1

Dimensions and weight

Table 2. Dimensions and weight

Description	Values
Height:	
Front	15.85 mm (0.62 in.)
Rear	18.90 mm (0.74 in.)
Width	357.66 (14.08 in.)
Depth	248.61 mm (9.78 in.)
Weight (maximum)	2.19 kg (4.83 lbs)
NOTE: The weight of your computer depends on the configuration ordered and the manufacturing variability.	

Processors

Table 3. Processors

Description	Values	
Processors	10 th Generation Intel Core i5	10 th Generation Intel Core i7
Wattage	15 W	15 W
Core count	4	4
Thread count	8	8
Speed	1.6 GHz	1.8 GHz
Cache	6 MB	8 MB
Integrated graphics	Intel UHD Graphics	Intel UHD Graphics

Chipset

Table 4. Chipset

Description	Values
Chipset	Integrated in the processor
Processor	10 th Generation Intel Core i5/i7
DRAM bus width	64-bit/128-bit

Description	Values
Flash EPROM	32 MB
PCIe bus	Up to PCIe Gen 3.0
External bus frequency	Not supported

Operating system

- Windows 10 Home (64-bit)
- Windows 10 Professional (64-bit)

Memory

Table 5. Memory specifications

Description	Values
Slots	Two SODIMM slots
Type	DDR4
Speed	2666 MHz
Maximum memory	16 GB
Minimum memory	8 GB
Memory size per slot	4 GB/8 GB/16 GB
Configurations supported	<ul style="list-style-type: none"> • 8 GB (2 x 4 GB or 1 x 8 GB) • 12 GB (8 GB + 4 GB) • 16 GB (2 x 8 GB or 1 x 16 GB)

Ports and connectors

Table 6. External ports and connectors

External:	
USB	<ul style="list-style-type: none"> • Two USB 3.1 Gen 1 ports • Thunderbolt 3 (USB Type-C) port with Power Delivery
Audio	One headset port
Video	One HDMI 2.0 port
Media card reader	One microSD-card slot
Docking port	Not supported
Power adapter port	One power adapter port
Security	Not supported

Table 7. Internal ports and connectors**Internal:**

M.2

- One M.2 slot for WiFi and Bluetooth combo card
- One M.2 2230/2280 slot for solid-state drive

NOTE: To learn more about the features of different types of M.2 cards, see the knowledge base article [SLN301626](#).

Communications

Wireless module**Table 8. Wireless module specifications**

Description	Values	
Model number	Intel Wi-Fi 6 AX201	Intel 9560 (160 MHz)
Transfer rate	Up to 2.4 Gbps	Up to 1.73 Gbps
Frequency bands supported	Dual band 2.4 GHz/5 GHz	Dual band 2.4 GHz/5 GHz
Wireless standards	<ul style="list-style-type: none"> • WiFi 802.11a/b/g • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac) • Wi-Fi 6 (WiFi 802.11ax) 	<ul style="list-style-type: none"> • WiFi 802.11a/b/g • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac)
Encryption	<ul style="list-style-type: none"> • 64-bit/128-bit WEP • ARX-CCMP • TKIP 	<ul style="list-style-type: none"> • 64-bit/128-bit WEP • AES-CCMP • TKIP
Bluetooth	Bluetooth 5.0	Bluetooth 5.0

Audio

Table 9. Audio specifications

Description	Values
Controller	Realtek ALC3254
Stereo conversion	Supported
Internal interface	High-definition audio
External interface	One headset port (headset combo connector)
Speakers	Two
Internal speaker amplifier	Supported (Audio codec built-in amplifier)
External volume controls	Using media-control shortcut keys
Speaker output:	
Average	2 W

Description	Values
Peak	2.5 W
Subwoofer output	Not supported
Microphone	Digital-array microphones

Storage

Your computer supports one 2.5-inch hard drive and one M.2 solid state drive.

NOTE: The solid-state drive is the primary drive.

Table 10. Storage specifications

Form factor	Interface type	Capacity
M.2 2230 solid-state drive	PCIe NVMe 3 x4	Up to 1 TB
M.2 2280 solid-state drive	PCIe NVMe 3 x4	Up to 1 TB
One 2.5-inch hard drive	SATA AHCI 6 Gbps	Up to 2 TB

Intel Optane memory (optional)

Intel Optane technology utilizes 3D XPoint memory technology and functions as a non-volatile storage cache/accelerator and/or storage device depending on the Intel Optane memory installed in your computer.

Intel Optane Memory H10 with solid-state storage

Intel Optane Memory H10 with solid-state storage functions as both a non-volatile storage cache/accelerator (enabling enhanced read/write speeds for hard-drive storage) and a solid-state storage solution. It neither replaces nor adds to the memory (RAM) installed on your computer.

Table 11. Intel Optane Memory H10 with solid-state storage specifications

Description	Values
Interface	PCIe NVMe Gen 3 x2 <ul style="list-style-type: none"> One PCIe NVMe Gen3 x2 for Optane memory One PCIe NVMe Gen3 x2 3D QLC NAND Flash
Connector	M.2
Form factor	2280
Capacity (Optane memory)	Up to 32 GB
Capacity (QLC—solid-state storage)	Up to 512 GB

NOTE: Intel Optane Memory H10 with solid-state storage is supported on computers that meet the following requirements:

- 9th Generation or higher Intel Core i3/i5/i7 processors
- Windows 10 64-bit version or higher (Anniversary Update)
- Intel Rapid Storage Technology driver version 17.2 or higher

Media-card reader

Table 12. Media-card reader specifications

Description	Values
Type	One microSD-card slot
Cards supported	micro-Secure Digital (microSD)

Keyboard

Table 13. Keyboard specifications

Description	Values
Type	Backlit keyboard
Layout	QWERTY
Number of keys	<ul style="list-style-type: none">• United States and Canada: 101 keys• United Kingdom: 102 keys• Japan: 105 keys
Size	X = 18.70 mm key pitch Y = 18.05 mm key pitch
Shortcut keys	<p>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.</p> <p>NOTE: You can define the primary behavior of the function keys (F1–F12) by changing Function Key Behavior in BIOS setup program.</p> <p>Keyboard shortcuts</p>

Camera

Table 14. Camera specifications

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

Touchpad

Table 15. Touchpad specifications

Description	Values
Resolution:	
Horizontal	3211
Vertical	2431
Dimensions:	
Horizontal	104.40 mm (4.11 in.)
Vertical	80 mm (3.15 in.)

Touchpad gestures

For more information about touchpad gestures for Windows 10, see the Microsoft knowledge base article [4027871](https://support.microsoft.com/4027871) at support.microsoft.com.

Power adapter



Table 16. Power adapter specifications

Description	Values	
Type	65 W	90 W
Diameter (connector)	4.5 mm x 2.9 mm	4.5 mm x 2.9 mm
Input voltage	100 VAC-240 VAC	100 VAC-240 VAC
Input frequency	50 Hz-60 Hz	50 Hz-60 Hz
Input current (maximum)	1.60 A	1.50 A
Output current (continuous)	3.34 A	4.62 A
Rated output voltage	19.50 VDC	19.50 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 17. Battery specifications

Description	Values	
Type	3-cell "smart" lithium-ion (51 Whr)	4-cell "smart" lithium-ion (68 Whr)
Voltage	11.40 VDC	7.60 VDC
Weight (maximum)	0.25 kg (0.55 lb)	0.34 kg (0.75 lb)

Description	Values	
Dimensions:		
Height	7.05 mm (0.28 in.)	7.05 mm (0.28 in.)
Width	181 mm (7.12 in.)	233 mm (0.17 in.)
Depth	95.90 mm (3.78 in.)	95.90 mm (3.78 in.)
Temperature range:		
Operating	0°C to 35°C (32°F to 95°F)	0°C to 35°C (32°F to 95°F)
Storage	–40°C to 65°C (–40°F to 149°F)	–40°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.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.
Charging time (approximate)	4 hours (when the computer is off) <div> 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, <i>Me and My Dell</i> on www.dell.com.</div>	4 hours (when the computer is off) <div> 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, <i>Me and My Dell</i> on www.dell.com.</div>
Life span (approximate)	300 discharge/charge cycles	300 discharge/charge cycles
Coin-cell battery	CR-2032	CR-2032
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.

Display

Table 18. Display specifications

Description	Values	
Type	15-inch FHD	15-inch UHD
Panel technology	Narrow border with wide viewing angle (WVA)	Narrow border with wide viewing angle (WVA)
Luminance (typical)	200 nits	270 nits
Dimensions (Active area):		
Height	193.59 mm (7.62 in.)	193.59 mm (7.62 in.)
Width	344.16 mm (13.55 in.)	344.16 mm (13.55 in.)
Diagonal	394.87 (15.60 in.)	394.87 (15.60 in.)
Native resolution	1920 x 1080	3840 x 2160
Megapixels	2.07	8.29

Description	Values	
Pixels per inch (PPI)	141	282
Contrast ratio (min)	400:1	800:1
Response time (max)	35 msec rise/fall	35 msec rise/fall
Refresh rate	60 Hz	60 Hz
Horizontal view angle	+/- 85 degrees	+/- 85 degrees
Vertical view angle	+/- 85 degrees	+/- 85 degrees
Pixel pitch	0.179 mm	0.089 mm
Power consumption (maximum)	4.20 W	5.15 W
Anti-glare vs glossy finish	Glossy	Glossy
Touch options	Yes	Yes

Fingerprint reader

Table 19. Fingerprint reader specifications

Description	Values
Sensor technology	Capacitive
Sensor resolution	500 dpi
Sensor area	4.06 mm x 3.25 mm
Sensor pixel size	64 x 80 pixels

Video

Table 20. Discrete graphics specifications

Discrete graphics			
Controller	External display support	Memory size	Memory type
NVidia MX250	Not supported	2 GB	GDDR5

Table 21. Integrated graphics specifications

Integrated graphics			
Controller	External display support	Memory size	Processor
Intel UHD Graphics	One HDMI 2.0 port	Shared system memory	10 th Generation Intel Core i5/i7

Computer environment

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

Table 22. 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 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.

Keyboard shortcuts

NOTE: Keyboard characters may differ depending on the keyboard language configuration. Keys used for shortcuts remain the same across all language configurations.























Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. The symbol shown on the lower part of the key refers to the character that is typed out when the key is pressed. If you press shift and the key, the symbol shown on the upper part of the key is typed out. For example, if you press **2**, 2 is typed out; if you press **Shift + 2**, @ is typed out.

The keys F1-F12 at the top row of the keyboard are function keys for multi-media control, as indicated by the icon at the 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 23. List of keyboard shortcuts

Function key	Re-defined key (for multi-media control)	Behavior
		Mute audio
		Decrease volume
		Increase volume
		Play previous track/chapter
		Play/Pause
		Play next track/chapter
		Switch to external display
		Search
		Toggle keyboard backlight (optional)
		Decrease brightness
		Increase brightness

The **Fn** key is also used with selected keys on the keyboard to invoke other secondary functions.

Table 24. List of keyboard shortcuts

Function key	Behavior
	Turn off/on wireless



Function key	Behavior
 + 	Pause/Break
 + 	Sleep
 + 	Toggle scroll lock
 + 	Toggle between power and battery-status light/hard-drive activity light
 + 	System request
 + 	Open application menu
 + 	Toggle Fn-key lock
 + 	Page up
 + 	Page down
 + 	Home
 + 	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 25. Self-help resources

Self-help resources	Resource location
Information about Dell products and services	www.dell.com
My Dell	
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
Troubleshooting information, user manuals, setup instructions, product specifications, technical help blogs, drivers, software updates, and so on.	www.dell.com/support
Dell knowledge base articles for a variety of computer concerns.	<ol style="list-style-type: none"> 1. Go to www.dell.com/support. 2. Type the subject or keyword in the Search box. 3. Click Search to retrieve the related articles.
Learn and know the following information about your product: <ul style="list-style-type: none"> • Product specifications • Operating system • Setting up and using your product • Data backup • Troubleshooting and diagnostics • Factory and system restore • BIOS information 	See <i>Me and My Dell</i> at www.dell.com/support/manuals . To locate the <i>Me and My Dell</i> relevant to your product, identify your product through one of the following: <ul style="list-style-type: none"> • Select Detect Product. • Locate your product through the drop-down menu under View Products. • Enter the Service Tag number or Product ID in the search bar.

Contacting Dell

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

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

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