Inspiron 5390

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 Inspiron 5390

ⓘ **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 battery might enter power saving mode. Connect the power adapter and press the power button to turn on the computer.**

2   Finish operating system setup.

For Ubuntu:

Follow the on-screen instructions to complete the setup. For more information about installing and configuring Ubuntu, see the knowledge base articles SLN151664 and SLN151748 at www.dell.com/support.

For Windows:

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
	My Dell

Resources	Description
	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.

SupportAssist

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.

ⓘ | **NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.**

Dell Update

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.
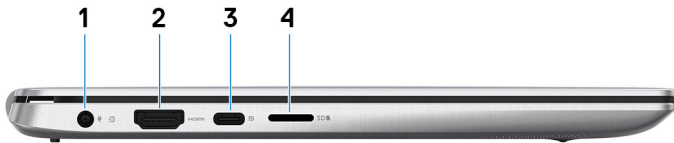
Dell Digital Delivery

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 5390

Left

1   2   3   4

1   **Power-adapter port**

Connect a power adapter to provide power to your computer.

2   **HDMI port**

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

3   **USB 3.1 Gen 1 (Type-C) port/DisplayPort**

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

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

4   **microSD-card slot**

Reads from and writes to the microSD-card.

Right

1   2   3

1   **Micro-SIM card slot (optional)**

Insert a micro-SIM card to connect to a mobile broadband network.
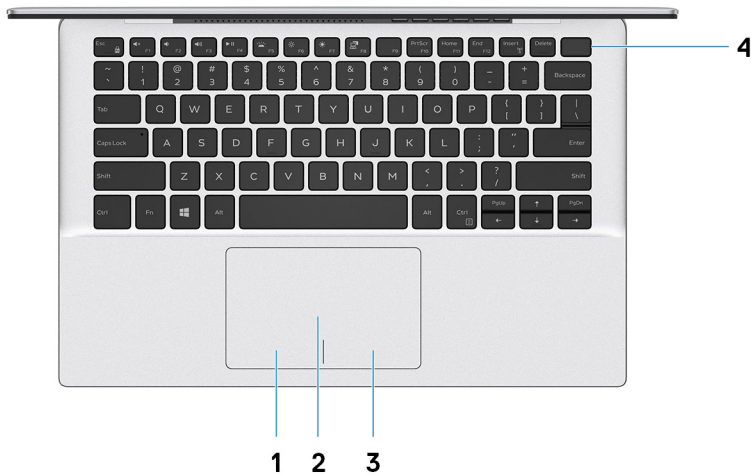
2   **Headset port**

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

3   **USB 3.1 Gen 1 port**

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.

4. **Power button with optional 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 4 seconds to force shut-down the computer.

    If the power button has a fingerprint reader, place your finger on the power button to log in.

    > ⓘ 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.

Specifications of Inspiron 5390

Dimensions and weight

Table 2. Dimensions and weight

Description	Values
Height:	
Front	• 14.90 mm (0.59 in.) • Wireless Wide Area Network (WWAN) – 16.80 mm (0.66 in.)
Rear	• 16.50 mm (0.65 in.) • Wireless Wide Area Network (WWAN) – 18.50 mm (0.73 in.)
Width	307.6 mm (12.11 in.)
Depth	204.5 mm (8.05 in.)
Weight	• 1.18 kg (2.60 lbs) • Wireless Wide Area Network (WWAN) – 1.20 kg (2.65 lbs)

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

Processors

Table 3. Processors

Description	Values		
Processors	8th Generation Intel Core i3	8th Generation Intel Core i5	8th Generation Intel Core i7
Wattage	15 W	15 W	15 W
Core count	2	4	4
Thread count	4	8	8
Speed	Up to 3.5 GHz	Up to 3.9 GHz	Up to 4.6 GHz
Cache	4 MB	6 MB	8 MB
Integrated graphics	Intel UHD 620 Graphics	Intel UHD 620 Graphics	Intel UHD 620 Graphics

Chipset

Table 4. Chipset

Description	Values
Chipset	Integrated in the processor
Processor	8th Generation Intel Core i3/i5/i7
DRAM bus width	64-bit
Flash EPROM	16 MB
PCIe bus	Up to Gen 3.0

Operating system

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

Memory

Table 5. Memory specifications

Description	Values
Slots	Onboard memory ⓘ NOTE: The memory is integrated on the system board from the factory and it cannot be upgraded later.
Type	LPDDR3
Speed	2133 MHz
Maximum memory	16 GB
Minimum memory	4 GB
Memory size per slot	2 GB, 4 GB
Configurations supported	• 4 GB LPDDR3 at 2133 MHz (2 x 2 GB) • 8 GB LPDDR3 at 2133 MHz (2 x 4 GB)

Ports and connectors

Table 6. External ports and connectors

External:	
USB	• One USB 3.1 Gen 1 port • One USB 3.1 Gen 1 (Type-C) port/DisplayPort
Audio	One headset (headphone and microphone combo) port
Video	One HDMI 1.4b port
Media card reader	One MicroSD-card slot
Docking port	Not supported
Power adapter port	One 4.5 mm x 2.9 mm DC-in
Security	Not supported

Table 7. Internal ports and connectors

Internal:	

M.2	• One M.2 2230 slot for Wi-Fi and Bluetooth combo card
	• One M.2 2242 slot for WWAN or M.2 2230 solid-state drive
	• One M.2 slot for one of the following:
	  – Solid-state drive (2230/2280)
	  – Intel Optane Memory H10 with solid-state storage (2280)
	
	ⓘ **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 9560	Intel 9462
Transfer rate	Up to 1730 Mbps	Up to 433 Mbps
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz
Wireless standards	• WiFi 802.11a/b/g • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac)	• WiFi 802.11a/b/g • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac)

Description	Values	
Encryption	• 64-bit/128-bit WEP • AES-CCMP • TKIP	• 64-bit/128-bit WEP • AES-CCMP • TKIP
Bluetooth	Bluetooth 5	Bluetooth 5

Audio

Table 9. Audio specifications

Description	Values
Controller	Realtek ALC3204
Stereo conversion	Supported
Internal interface	Intel HDA
External interface	Headset Combo Connector
Speakers	2
Internal speaker amplifier	Supported
External volume controls	Keyboard shortcut controls
Speaker output:	
Average	2 W
Peak	2.5 W
Subwoofer output	Not supported
Microphone	Dual-array microphones

Storage

Your computer supports one of the following configurations:

• One M.2 2230/2280 solid-state drive
• One M.2 2230/2280 solid-state drive and one M.2 2230 solid-state drive
• One M.2 card (solid-state drive or Intel Optane Memory H10 with solid-state storage)

The primary drive of your computer varies with the storage configuration. For computers with a M.2 drive, the M.2 drive is the primary drive

Table 10. Storage specifications

Form factor	Interface type	Capacity
M.2 2230/2280 solid-state drive	PCIe Gen 3.0 x4 NVMe, up to 32 Gbps	Up to 512 GB
M.2 2230 solid-state drive	PCIe Gen 3.0 x2 NVMe, up to 16 Gbps	Up to 512 GB
M.2 2280 Intel Optane Memory H10 with solid-state storage	Solid-state storage: PCIe Gen 3.0 x2 NVMe, up to 16 Gbps	Up to 512 GB

Intel Optane Memory H10 with solid-state storage (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 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 3.0 x4 • One PCIe 3.0 x2 for Optane memory • One PCIe 3.0 x2 for solid-state storage
Connector	M.2
Form factor	2280
Capacity (Optane memory)	Up to 32 GB
Capacity (solid-state storage)	Up to 512 GB

(i) **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 15.9.1.1018 or higher

Media-card reader

Table 12. Media-card reader specifications

Description	Values
Type	One microSD card slot
Cards supported	• Micro Secure Digital (mSD) • Micro Secure Digital High Capacity (mSDHC) • Micro Secure Digital Extended Capacity (mSDXC)

Keyboard

Table 13. Keyboard specifications

Description	Values
Type	• Standard non-backlit keyboard • Backlit keyboard
Layout	QWERTY
Number of keys	• United States and Canada: 81 keys • United Kingdom: 82 keys • Japan: 85 keys
Size	X=18.70 mm key pitch Y=18.05 mm key pitch
Shortcut keys	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. ⓘ NOTE: You can define the primary behavior of the function keys (F1–F12) changing Function Key Behavior in BIOS setup program. Keyboard shortcuts

Camera

Table 14. Camera specifications

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

Touchpad

Table 15. Touchpad specifications

Description	Values
Resolution:	
Horizontal	1920
Vertical	1080
Dimensions:	
Horizontal	105 mm (4 in.)
Vertical	65 mm (3 in.)

Touchpad gestures

For more information about touchpad gestures for Windows 10, see the Microsoft knowledge base article 4027871 at support.microsoft.com.

Power adapter

Table 16. Power adapter specifications

Description	Values
Type	E65W
Diameter (connector)	4.5 mm x 2.9 mm
Input voltage	100 VAC x 240 VAC
Input frequency	50 Hz x 60 Hz
Input current (maximum)	1.6 A
Output current (continuous)	3.34 A
Rated output voltage	19.5 VDC
Temperature range:	
Operating	0°C to 40°C (32°F to 104°F)
Storage	40°C to -40°C (104°F to -40°F)

Battery

Table 17. Battery specifications

Description	Values
Type	4-cell "smart" lithium-ion
Voltage	7.6 VDC
Weight (maximum)	0.22 kg (0.49 lb)
Dimensions:	
Height	257.85 mm (10.15 in.)
Width	98.8 mm (3.89 in.)
Depth	4.3 mm (0.17 in.)
Temperature range:	
Operating	0°C to 35°C (32°F to 95°F)
Storage	35°C to -40°C (95°F to -40°F)
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.
Charging time (approximate)	3 hours (when the computer is off)
	ⓘ 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 https://www.dell.com/**
Life span (approximate)	300 discharge/charge cycles
Coin-cell battery	CR2032
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.

Display

Table 18. Display specifications

Description	Values	
Type	Full High Definition (FHD)	Full High Definition (FHD)
Panel technology	Wide Viewing Angle	Wide Viewing Angle
Luminance (typical)	300 nits	300 nits
Dimensions (Active area):		
Height	165.24 mm (6.51 in.)	165.24 mm (6.51 in.)

Description		Values	
	Width	293.76 mm (11.57 in.)	293.76 mm (11.57 in.)
	Diagonal	337.04 mm (13.27 in.)	337.04 mm (13.27 in.)
Native resolution		1920 x 1080 (FHD, non-touch)	1920 x 1080 (FHD, touch)
Megapixels		2.07	2.07
Color gamut		72% (sRGB)	72% (sRGB)
Pixels per inch (PPI)		166	166
Contrast ratio (min)		400:1	400:1
Response time (max)		35 ms	35 ms
Refresh rate		60 Hz	60 Hz
Horizontal view angle		+/- 80 degrees	+/- 80 degrees
Vertical view angle		+/- 80 degrees	+/- 80 degrees
Pixel pitch		0.15 mm	0.15 mm
Power consumption (maximum)		4.6 W	4.6 W
Anti-glare vs glossy finish		Glossy	Anti-glare
Touch options		Not supported	Supported

Fingerprint reader (optional)

Table 19. Fingerprint reader specifications

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

Video

Table 20. Discrete graphics specifications

Discrete graphics			
Controller	**External display support**	**Memory size**	**Memory type**
NVIDIA GeForce MX250	One HDMI 1.4 port	2 GB	GDDR5

Table 21. Discrete graphics specifications

Integrated graphics

Controller	External display support	Memory size	Processor
Intel UHD 620 Graphics	One HDMI 1.4 port	Shared system memory	8th Generation Intel Core i3/i5/i7

Computer environment

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

Table 22. 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)	10% to 95% (non-condensing)
Vibration (maximum)*	0.66 GRMS	1.3 GRMS
Shock (maximum)	140 G†	160 G†
Altitude (maximum)	N/A	N/A

* 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.

Keyboard shortcuts

(i) **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**.

(i) **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	Redefined key (for multimedia control)	Behavior
F1 ◀×	Fn + F1 ◀×	Mute audio
F2 ◀	Fn + F2 ◀	Decrease volume
F3 ◀))	Fn + F3 ◀))	Increase volume
F4 ◀◀	Fn + F4 ◀◀	Play previous track/chapter
F5 ▶❙❙	Fn + F5 ▶❙❙	Play/Pause
F6 ▶▶❙	Fn + F6 ▶▶❙	Play next track/chapter
F8 ⬚	Fn + F8 ⬚	Switch to external display
F9 🔍	Fn + F9 🔍	Search
F10 ⌨	Fn + F10 ⌨	Toggle keyboard backlight (optional) (i) **NOTE:** Non-backlight keyboards have F10 function key without the backlight icon and does not support toggle keyboard backlight function.
F11 ☼	Fn + F11 ☼	Decrease brightness

Function key	Redefined key (for multimedia control)	Behavior
F12 ☼	Fn + F12 ☼	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
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 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.	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: • Product specifications • Operating system • Setting up and using your product • Data backup • Troubleshooting and diagnostics • Factory and system restore • BIOS information	See *Me and My Dell* at www.dell.com/support/manuals. To locate the *Me and My Dell* relevant to your product, identify your product through one of the following: • 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.