Inspiron 7586

Setup and Specifications

Computer Model: Inspiron 7586
Regulatory Model: P76F
Regulatory Type: P76F001

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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1

Set up your Inspiron 7586

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 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

	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.
	Dell Digital Delivery Download software applications, which are purchased but not pre-installed on your computer.

4 Create recovery drive for Windows.

NOTE: It is recommended to create a recovery drive to troubleshoot and fix problems that may occur with Windows.

For more information, see Create a USB recovery drive for Windows.

Create a USB recovery drive for Windows

Create a recovery drive to troubleshoot and fix problems that may occur with Windows. An empty USB flash drive with a minimum capacity of 16 GB is required to create the recovery drive.

NOTE: This process may take up to an hour to complete.

NOTE: The following steps may vary depending on the version of Windows installed. Refer to the Microsoft support site for latest instructions.

1. Connect the USB flash drive to your computer.
2. In Windows search, type `Recovery`.
3. In the search results, click **Create a recovery drive**.
   The **User Account Control** window is displayed.
4. Click **Yes** to continue.
   The **Recovery Drive** window is displayed.
5. Select **Back up system files to the recovery drive** and click **Next**.
6. Select the **USB flash drive** and click **Next**.
   A message appears, indicating that all data in the USB flash drive will be deleted.
7. Click **Create**.
8. Click **Finish**.
   For more information about reinstalling Windows using the USB recovery drive, see the *Troubleshooting* section of your product's *Service Manual* at www.dell.com/support/manuals.

3

Views of Inspiron 7586

Right

1 **SD-card slot**

Reads from and writes to the SD card.

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

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

Left

1 **Power-adapter port**

Connect a power adapter to provide power to your computer.

2 **Power and battery-status light/hard-drive activity light**

Indicates the battery-charge status or the hard-drive activity.

NOTE: Press Fn+H to toggle between the power and battery-status light, and hard-drive activity light.

Hard-drive activity light

Turns on when the computer reads from or writes to the hard drive.

Power and battery-status light

Indicates the power and battery-charge status.

Solid white — Power adapter is connected and the battery has more than 5% charge.

Amber — Computer is running on battery and the battery has less than 5% charge.

Off

- Power adapter is connected and the battery is fully charged.
- Computer is running on battery and the battery has more than 5% charge.
- Computer is in sleep state, hibernation, or turned off.

3 **HDMI port**

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

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

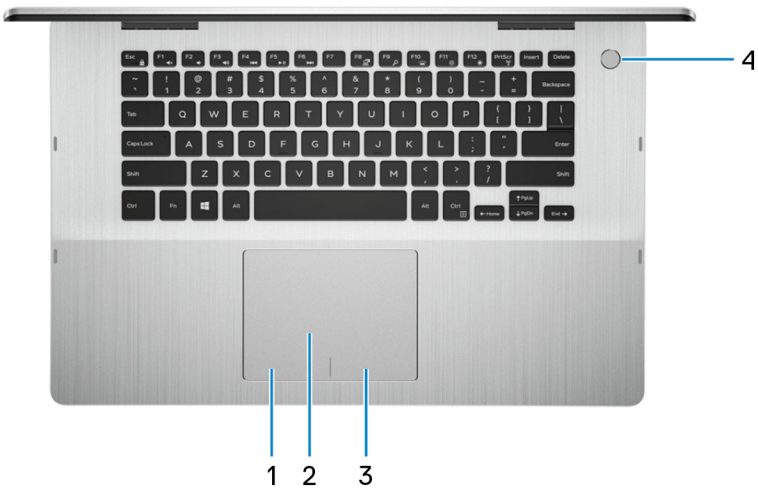
Connect peripherals such as external storage devices, printers, and external displays. Provides data transfer speeds up to 5 Gbps.

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

5 **Headset port**

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

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 fingerprint reader**

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

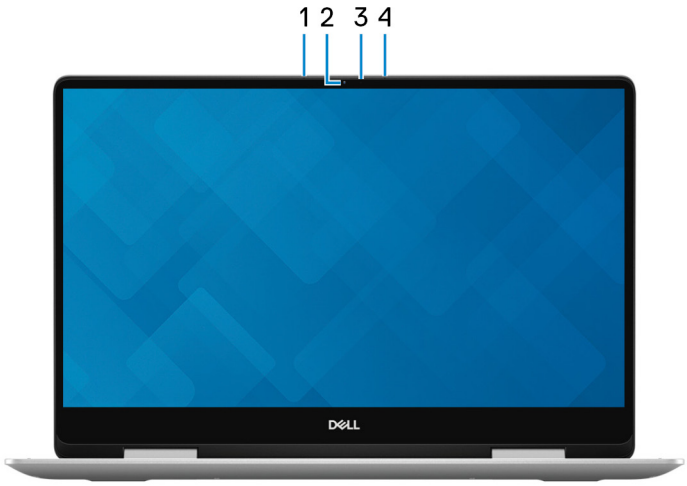
When the computer is turned on, press the power button to put the computer into sleep state; press and hold the power button for 10 seconds to force shut-down the computer.

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

NOTE: Before using the fingerprint reader, configure it in Windows to recognize your fingerprint as a passcode and enable access. For more information, see www.dell.com/support/windows.

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.

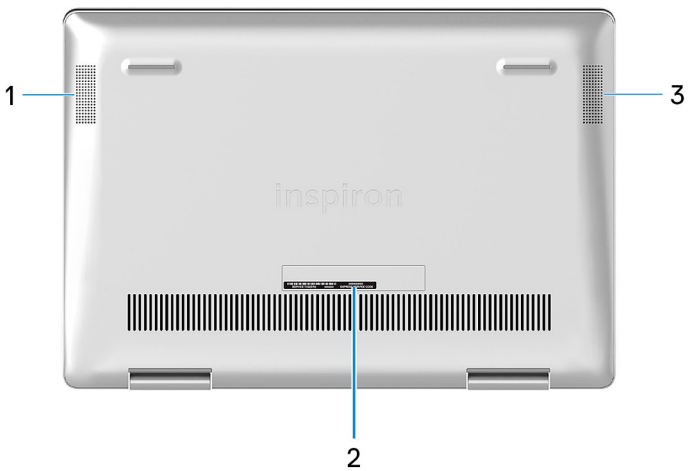
3 **Camera-status light**

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

4

Specifications of Inspiron 7586

Computer model

Inspiron 7586

Dimensions and weight

Table 2. Dimensions and weight

Height:		
	Front	15.76 mm (0.62 in.)
	Rear	18.85mm (0.74 in.)
Width		359.86 mm (14.17 in.)
Depth		242.22 mm (9.53 in.)
Weight (maximum)		2.07 kg (4.56 lb)

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

Processors

Table 3. Processor specifications

Processor	8th Generation Intel Core i5/i7
Wattage	15 W
Core count	4
Thread count	8
Speed	Up to 1.60/1.80 GHz (Boost - 3.90/4.60 GHz)
Intel Smart Cache	6/8 MB
Integrated graphics	Supported

Chipset

Table 4. Chipset specifications

Chipset	Integrated in the processor
Processor	8th Generation Intel Core i5/i7
DRAM bus width	x64
Flash EPROM	32 MB
PCIe bus	Up to PCIe Gen 3
External bus frequency	Up to 8 GT/s

Operating system

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

Memory

Table 5. Memory specifications

Slots	Two slots
Type	DDR4
Speed	2666 MHz **NOTE: The 2666 MHz memory functions at 2400 MHz with 8th Generation Intel Core processors.**
Maximum memory	16 GB
Minimum memory	8 GB
Memory per slot	4 GB, 8 GB, and 16 GB
Configurations supported	• 8 GB DDR4 at 2400 MHz (1x8 GB) • 8 GB DDR4 at 2400 MHz (2x4 GB) • 12 GB DDR4 at 2400 MHz (4 GB + 8 GB) • 16 GB DDR4 at 2400 MHz (1x16 GB) • 16 GB DDR4 at 2400 MHz (2x8 GB)

Ports and connectors

Table 6. Ports and connectors specifications

External:	
Network	Not supported
USB	• Two USB 3.1 Gen 1 ports • USB 3.1 Gen 1 (Type-C) port/DisplayPort
Audio	One headset port
Video	One HDMI 2.0 port
Media-card reader	One SD-card slot
Power adapter port	One power-adapter port
Internal:	
Expansion	Not supported
M.2	• One M.2 slot for Wi-Fi and Bluetooth combo card • One M.2 2280/2230 slot for solid-state drive or Intel Optane memory

Communications

Wireless module

Table 7. Wireless module specifications

Model number	Intel 9560
Transfer rate	Up to 867 Mbps
Frequency bands supported	Dual band 2.4 GHz/5 GHz
Wireless standards	Wi-Fi 802.11a/b/g/n/ac
Encryption	• 64-bit/128-bit WEP • AES-CCMP • TKIP
Bluetooth	Bluetooth 5.0 **NOTE: Windows 10 supports up to Bluetooth 4.2.**

Audio

Table 8. Audio specifications

Type		High Definition Audio
Controller		Realtek ALC3254
Stereo conversion		Supported
Internal interface		Intel High-Definition Audio (HDA)
External interface		7.1 channel output through HDMI, digital microphone input on camera module, headset port (headphone and microphone combo).
Speakers		Two
Internal speaker amplifier		Supported
External volume controls		Using media-control shortcut keys
Speaker output:		
	Average	2 W
	Peak	2.5 W
Subwoofer output		Not supported
Microphone		Dual-array microphones

Storage

Table 9. Storage specifications

Storage type	Interface type	Capacity
One 2.5-inch hard drive	SATA AHCI 6 Gbps	Up to 2 TB
M.2 2280/2230 solid-state drive	PCIe NVMe up to 32 Gbps	Up to 1 TB

Intel Optane memory

Intel Optane memory functions only as a storage accelerator. It neither replaces nor adds to the memory (RAM) installed on your computer.

NOTE: Intel Optane memory is supported on computers that meet the following requirements:

- 7th Generation or higher Intel Core i3/i5/i7 processor
- Windows 10 64-bit version or higher
- Intel Rapid Storage Technology driver version 15.9.1.1018 or higher

Table 10. Intel Optane memory specifications

Type	Storage accelerator
Interface	PCIe 3.0 x2 NVMe
Connector	M.2
Configurations supported	16 GB and 32 GB
Capacity	Up to 32 GB

Media-card reader

Table 11. Media-card reader specifications

Type	One SD card slot
Cards supported	• Secure Digital (SD) • Secure Digital High Capacity (SDHC) • SD Extended Capacity (SDXC)

Keyboard

Table 12. Keyboard specifications

Type	Backlit keyboard
Layout	QWERTY
Number of keys	• United States and Canada: 80 keys • United Kingdom: 81 keys • Japan: 84 keys
Size	• X = 19.05 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) by changing Function Key Behavior in BIOS setup program.** Keyboard shortcuts

Camera

Table 13. Camera specifications

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

Touchpad

Table 14. Touchpad specifications

Resolution:	
Horizontal	3211
Vertical	2431
Dimensions:	
Horizontal	104.40 mm (4.11 in.)
Vertical	79.40 mm (3.13 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 15. Power adapter specifications

Type	65 W
Diameter (connector)	4.5 mm
Input voltage	100 VAC-240 VAC

Input frequency	50 Hz-60 Hz
Input current (maximum)	1.70 A
Output current (continuous)	3.34 A
Rated output voltage	19.50 VDC
Temperature range:	
Operating	–40°C to 70°C (–40°F to 158°F)
Storage	–40°C to 70°C (–40°F to 158°F)

Battery

Table 16. Battery specifications

Type	3-cell Primus (42 WHr)	4-cell Primus (56 WHr)
Voltage	11.40 VDC	15.20 VDC
Weight (maximum)	0.20 kg (0.44 lb)	0.25 kg (0.55 lb)
Dimensions:		
Height	5.90 mm (0.23 in.)	5.90 mm (0.23 in.)
Width	184.15 mm (7.25 in.)	233.06 mm (9.18 in.)
Depth	90.73 mm (3.57 in.)	90.73 mm (3.57 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.	
Charging time (approximate)	4 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 www.dell.com.**	
Life span (approximate)	300 discharge/charge cycles	300 discharge/charge cycles
Coin-cell battery	CR-2032	CR-2032

Display

Table 17. Display specifications

Type	Full HD with MPP Pen support	Ultra HD with MPP Pen support
Panel technology	Wide Viewing Angle (WVA)	Wide Viewing Angle (WVA)
Luminance (typical)	200 nits	300 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 mm (15.6 in.)	394.87 mm (15.6 in.)
Native resolution	1920 x 1080	3840 x 2160
Megapixels	2.07	8.29
Pixels Per Inch (PPI)	141	282
Contrast ratio	700:1 (typical) 400:1 (minimum)	1000:1 (typical) 700:1 (minimum)
Response time (maximum)	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	0.0896 mm
Power consumption (maximum)	4.20 W	5.15 W
Anti-glare vs glossy finish	Glossy	Glossy
Touch options	Yes	Yes

Fingerprint reader

Table 18. Fingerprint reader specifications

Sensor technology	Capacitive
Sensor resolution	500 DPI
Sensor area	5.5 mm x 4.5 mm

Sensor pixel size	108 x 88 pixels

Video

Table 19. Discrete graphics specifications

Discrete graphics			
Controller	**External display support**	**Memory size**	**Memory type**
NVIDIA GeForce MX150	Not supported	2 GB and 4 GB	GDDR5

Table 20. Integrated graphics specifications

Integrated graphics			
Controller	**External display support**	**Memory size**	**Processor**
Intel UHD Graphics 620	One USB 3.1 Gen 1 (Type-C) port/DisplayPort and one HDMI port	Shared system memory	8th Generation Intel Core i5/i7

Computer environment

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

Table 21. 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.

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Keyboard shortcuts

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

Table 22. List of keyboard shortcuts

Keys	Description
	Mute audio
	Decrease volume
	Increase volume
	Play previous track/chapter
	Play/Pause
	Play next track/chapter
	Switch to external display
	Search
	Toggle keyboard backlight
	Decrease brightness
	Increase brightness
	Turn off/on wireless
	Toggle scroll lock
	Toggle Fn-key lock
	Pause/Break
	Sleep
	System request
	Open application menu

Keys	Description
Fn + H	Toggle between battery-status light and hard-drive activity light **NOTE: Hard-drive activity light is supported only on computers shipped with a hard drive.**

6

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 23. Self-help resources

Information about Dell products and services	www.dell.com
Tips	
Contact Support	In Windows search, type `Contact Support`, and press Enter.
Online help for operating system	www.dell.com/support/windows
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 and product, and some services may not be available in your country.

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.