

Inspiron 7786

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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Contents

| | |
|---|-----------|
| 1 Set up your Inspiron 7786..... | 4 |
| 2 Create a USB recovery drive for Windows..... | 6 |
| 3 Views of Inspiron 7786..... | 7 |
| Right..... | 7 |
| Left..... | 7 |
| Base..... | 8 |
| Display..... | 9 |
| Bottom..... | 9 |
| Modes..... | 10 |
| 4 Specifications of Inspiron 7786..... | 12 |
| Computer model..... | 12 |
| Dimensions and weight..... | 12 |
| Processors..... | 12 |
| Chipset..... | 12 |
| Operating system..... | 13 |
| Memory..... | 13 |
| Ports and connectors..... | 13 |
| Communications..... | 14 |
| Audio..... | 14 |
| Storage..... | 15 |
| Intel Optane memory..... | 15 |
| Media-card reader..... | 15 |
| Keyboard..... | 15 |
| Camera..... | 16 |
| Touchpad..... | 16 |
| Touchpad gestures..... | 16 |
| Power adapter..... | 16 |
| Battery..... | 17 |
| Display..... | 17 |
| Fingerprint reader..... | 18 |
| Video..... | 18 |
| Computer environment..... | 19 |
| 5 Keyboard shortcuts..... | 20 |
| 6 Getting help and contacting Dell..... | 21 |

Set up your Inspiron 7786

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

| 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.

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.

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

i **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.

Views of Inspiron 7786

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-adaptor 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 with Power Delivery/DisplayPort

Connect peripherals such as external storage devices, printers, and external displays.

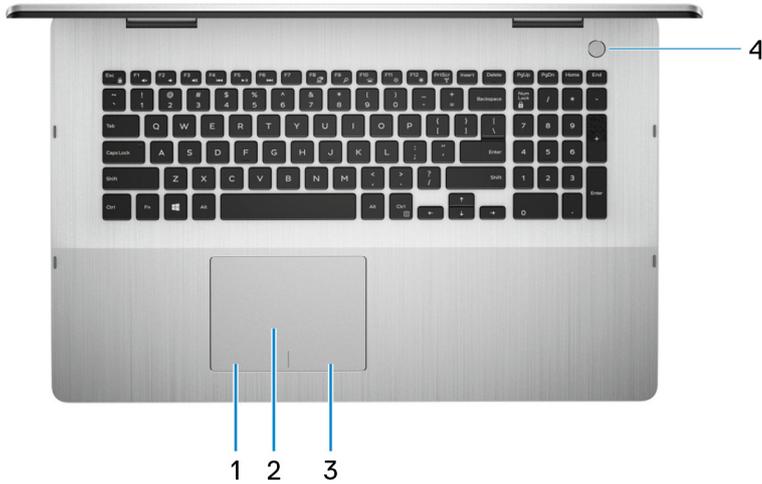
Supports Power Delivery that enables two-way power supply between devices. Provides up to 15 W power output that enables faster charging.

i | **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.

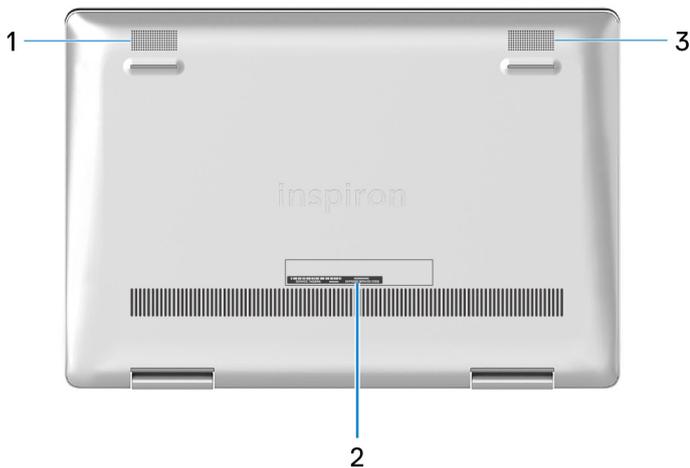
i | **NOTE:** You can customize power-button behavior in Windows. For more information, see *Me and My Dell* at www.dell.com/support/manuals.

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 7786

Computer model

Inspiron 7786

Dimensions and weight

Table 2. Dimensions and weight

Height:

Front 16.09 mm (0.63 in.)

Rear 21.50 mm (0.85 in.)

Width 412.50 mm (16.24 in.)

Depth 273.95 (10.79 in.)

Weight (maximum) 2.94 kg (6.48 lb)

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

Processors

Table 3. Processor specifications

| | |
|---------------------|---|
| Processor | 8 th 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 | 8 th 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 | 2400 MHz |
| Maximum memory | 16 GB i NOTE: Dell offers up to 16 GB but the computer supports 32 GB memory. |
| Minimum memory | 8 GB |
| Memory per slot | 4 GB, 8 GB, and 16 GB |
| Configurations supported | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Two USB 3.1 Gen 1 ports • USB 3.1 Gen 1 (Type-C) port with PowerDelivery/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 WiFi 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 | WiFi 802.11a/b/g/n/ac |
| Encryption | <ul style="list-style-type: none"> • 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 with Waves MaxxAudio Pro | |
| 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 512 GB |

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 | <ul style="list-style-type: none">• 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 | <ul style="list-style-type: none">• United States and Canada: 101 keys• United Kingdom: 102 keys• Japan: 105 keys |
| Size | <ul style="list-style-type: none">• 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 | 4-cell Primus (56 WHr) |
| Voltage | 15.20 VDC |
| Weight (maximum) | 0.25 kg (0.55 lb) |
| Dimensions: | |
| Height | 5.90 mm (0.23 in.) |
| Width | 233.06 mm (9.18 in.) |
| Depth | 90.73 mm (3.57 in.) |
| Temperature range: | |
| Operating | 0°C to 35°C (32°F to 95°F) |
| Storage | -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 <i>Me and My Dell</i> on www.dell.com . |
| Life span (approximate) | 300 discharge/charge cycles |
| Coin-cell battery | CR-2032 |

Display

Table 17. Display specifications

| | |
|------|---------|
| Type | Full HD |
|------|---------|

| | |
|-----------------------------|---------------------------------|
| Panel technology | Wide Viewing Angle (WVA) |
| Luminance (typical) | 300 nits |
| Dimensions (active area): | |
| Height | 214.81 mm (8.46 in.) |
| Width | 381.89 mm (15.04 in.) |
| Diagonal | 438.16 mm (17.25 in.) |
| Native resolution | 1920 x 1080 |
| Megapixels | 2.07 |
| Pixels Per Inch (PPI) | 127 |
| Contrast ratio (minimum) | 700:1 (typical) 500:1 (minimum) |
| Response time (maximum) | 35 msec rise/fall |
| Refresh rate | 60 Hz |
| Horizontal view angle | +/- 85 degrees |
| Vertical view angle | +/- 85 degrees |
| Pixel pitch | 0.198 mm |
| Power consumption (maximum) | 8 W |
| Anti-glare vs glossy finish | Glossy |
| Touch options | 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 | 8 th 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.

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 |
|  | 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.

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

| Self-help resources | Resource location |
|---|---|
| Information about Dell products and services | www.dell.com |
| My Dell app |  |
| Tips |  |
| Contact Support | In Windows search, type <code>Contact Support</code> , and press Enter. |
| Online help for operating system | www.dell.com/support/windows |
| Troubleshooting information, user manuals, set up 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. On the menu bar at the top of the Support page, select Support > Knowledge Base. 3. In the Search field on the Knowledge Base page, type the keyword, topic, or model number, and then click or tap the search icon to view the related articles. |
| Learn and know the following information about your product: | See <i>Me and My Dell</i> at www.dell.com/support/manuals . |
| <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 | 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 about your purchase invoice, packing slip, bill, or Dell product catalog.**