Dell G3 15

Setup and Specifications

Computer Model: Dell G3 3579
Regulatory Model: P75F
Regulatory Type: P75F003

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 computer

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 instructions on the screen to finish setup.

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

	Dell Product Registration Register your computer with Dell.
	Dell Help & Support Access help and support for your computer.
	SupportAssist Proactively checks the health of your computer's hardware and software.

NOTE: Renew or upgrade your warranty by clicking the warranty expiry date in SupportAssist.



Dell Update

Updates your computer with critical fixes and important device drivers as they become available.



Dell Digital Delivery

Download software applications including software that is 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.

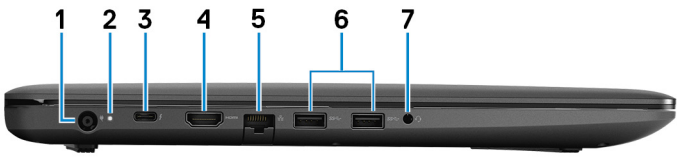
NOTE: The following steps may vary depending on the version of Windows installed. Refer to the Microsoft support site for latest instructions.

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

Left



1 **Power-adapter port**

Connect a power adapter to provide power to your computer and charge the battery.

2 **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 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.

NOTE: Hard-drive activity light is supported only on computers shipped with hard drive.

Battery-status light

Indicates the 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 **Thunderbolt 3 (USB Type-C) port (Optional)**

Supports USB 3.1 Gen 2, DisplayPort 1.2, 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.

NOTE: Thunderbolt 3 (USB Type-C) support is available only in certain regions.

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

4 **HDMI port**

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

5 **Network port**

Connect an Ethernet (RJ45) cable from a router or a broadband modem for network or Internet access.

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

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

7 **Headset port**

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

Right



1 **SD-card slot**

Reads from and writes to the SD card.

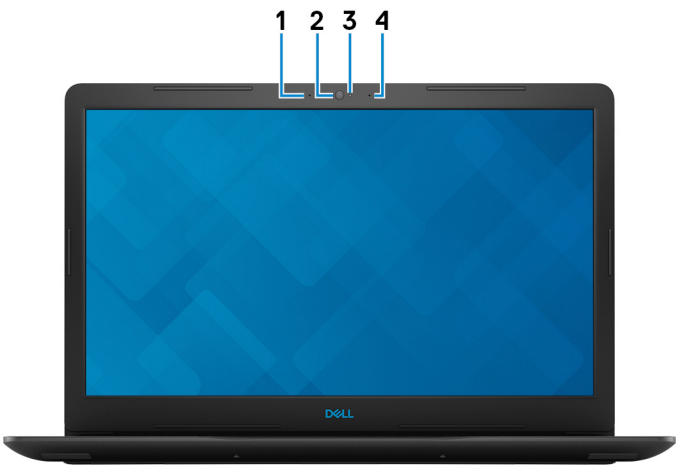
2 **USB 2.0 port**

Connect peripherals such as external storage devices and printers. Provides data transfer speeds up to 480 Mbps.

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

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

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.

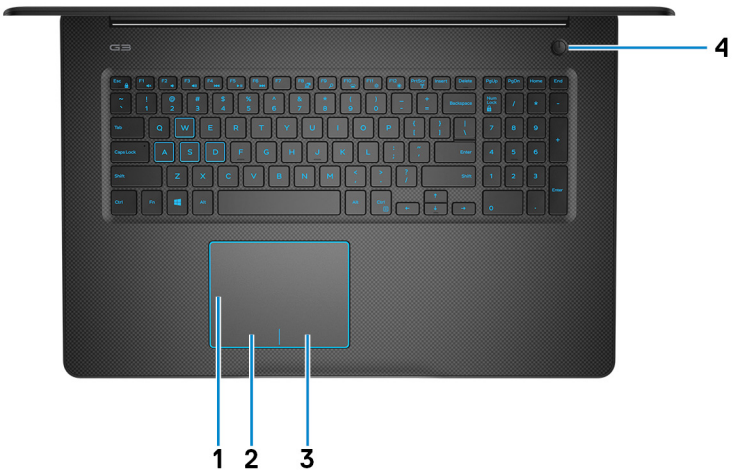
3 **Camera-status light**

Turns on when the camera is in use.

4 **Right microphone**

Provides digital sound input for audio recording and voice calls.

Base



1 **Touchpad**

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

2 **Left-click area**

Press to left-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: 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.

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.

4

Specifications

Computer model

Dell G3 3579

Dimensions and weight

Table 2. Dimensions and weight

Height	22.70 mm (0.89 in)
Width	380 mm (15 in)
Depth	258 mm (10.16 in)
Weight (approximate)	2.35 kg (5.18 lb)

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

System information

Table 3. System information

Processor	8th Generation Intel Core i5/i7
Chipset	Mobile Intel HM370 chipset

Operating system

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

Memory

Table 4. Memory specifications

Slots	Two SODIMM slots
Type	Dual-channel DDR4

Speed	2666MHz
Configurations supported:	
Per memory module slot	4 GB, 8 GB, and 16 GB
Total memory	4 GB, 8 GB, 12 GB, 16 GB, and 32 GB

Intel Optane memory (optional)

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 (Anniversary Update)
- Intel Rapid Storage Technology driver version 15.9 or higher

Table 5. Intel Optane memory specifications

Interface	PCIe 3x2, NVMe 1.1
Connector	M.2 Card slot (2280)
Configurations supported	• 16 GB • 32 GB

NOTE: Intel Optane memory functions as a storage accelerator . It does not replace DRAM and will not add to the RAM capacity installed on your computer.

Ports and connectors

Table 6. External ports and connectors

External	
Network	One RJ-45 port
USB	• Two USB 3.1 Gen 1 ports • One USB 2.0 port • One Thunderbolt 3 port (optional) **NOTE: Thunderbolt 3 (USB Type-C) support is available only in certain regions.**
Audio/Video	• One HDMI 2.0 port • One headset port (headphone and microphone combo) port

Table 7. Internal ports and connectors

Internal	
M.2 card	• One M.2 slot for the 2230 Wi-Fi and Bluetooth combo card • One M.2 slot for the 2280 solid-state drive

Communications

Table 8. Supported communications

Ethernet	10/100/1000 Mbps Ethernet controller integrated on system board
Wireless	• Wi-Fi 802.11ac • Bluetooth 4.1 • Bluetooth 5.0

Wireless module

Table 9. Wireless module specifications

Transfer rate	Up to 150 Mbps	Up to 433 Mbps	Up to 867 Mbps
Frequency bands supported	2.4 GHz only	Dual band 2.4 GHz/5GHz	Dual band 2.4 GHz/5GHz
Encryption	• 64-bit and 128-bit WEP • CKIP • TKIP • AES-CCMP	• 64-bit and 128-bit WEP • CKIP • TKIP • AES-CCMP	• 64-bit and 128-bit WEP • CKIP • TKIP • AES-CCMP

Camera

Table 10. Camera specifications

Resolution	• Still image: 1280 x 720 pixels • Video: 1280 x 720 at 30 fps
Diagonal-viewing angle	74 degrees

Video

Table 11. Video specifications

	Controller	Memory
Integrated	Not applicable	Not applicable
Discrete	• NVIDIA GeForce GTX 1060 Max-Q • NVIDIA GeForce GTX 1050/1050Ti	• 6 GB • 4 GB

Audio

Table 12. Audio specifications

Controller	Realtek ALC3204 with MaxxAudio Pro
Speakers	Two
Speaker output	
Average	2 W
Peak	2.5 W
Microphone	Dual-array microphones

Storage

Table 13. Storage specifications

Type	Interface	Capacity
One 2.5-inch Hard Disk Drive (HDD)	SATA, up to 6 Gbps	Up to 2 TB
One 2.5-inch Solid-State Hybrid Drive (SSHD)	SATA, up to 6 Gbps	Up to 1 TB
One M.2 2280 solid-state drive (SSD)	PCIe 3x4, up to 32 Gbps	Up to 512 GB

Media-card reader

Table 14. Media-card reader specifications

Type	One SD-card slot
Cards supported	• Secure Digital (SD) card • Multimedia Card (MMC)

Keyboard

Table 15. Keyboard specifications

Type	• Standard keyboard • Backlit keyboard (optional)
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: Press Fn+Esc to switch the primary behavior of the function keys (F1–F12) between two modes – multimedia key mode and function key mode.

NOTE: You can define the primary behavior of the function keys (F1-F12) by changing Function Key Behavior in BIOS setup program.

Keyboard shortcuts

Touchpad

Table 16. Touchpad

Resolution:	
Horizontal	1229
Vertical	929
Dimensions:	
Width	105 mm (4.13 in)
Height	80 mm (3.15 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 17. Power adapter specifications

Type	130 W (For computers shipped with NVIDIA 1050 graphics card)	180 W (For computers shipped with NVIDIA 1060 graphics card)
Diameter (connector)	7.4 mm	7.4 mm
Input voltage	100 VAC-240 VAC	100 VAC-240 VAC
Input frequency	50 Hz-60 Hz	50 Hz-60 Hz
Input current (maximum)	1.80 A/2.34 A/2.50 A	1.80 A/2.34 A/2.50 A
Output current (continuous)	6.70 A/9.23 A	6.70 A/9.23 A
Rated output voltage	19.50 VDC	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 18. Battery specifications

Type	4-cell “smart” lithium-ion (56 WHr)
Voltage	11.40 VDC
Weight (maximum)	0.2 kg (0.44 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)
Life span (approximate)	300 discharge/charge cycles
Coin-cell battery	CR-2032
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.

Display

Table 19. Display specifications

Type	15.6-inch FHD non-touchscreen panel
Resolution (maximum)	1920x1080
Panel Technology	In-Plane Switching (IPS) **NOTE: The maximum brightness and color gamut of the screen varies depending on the configuration ordered and is available only in certain regions.**
Gsync/Freesync support	No
Viewing angle	80/80/80/80

Pixel pitch	0.179 mm
Dimensions (excluding bezel):	
Height	0.179 mm
Width	223.80 mm (8.81 in)
Diagonal	396.24 mm (15.60 in)
Refresh rate	60 Hz
Operating angle	0 degree (closed) to 135 degrees
Controls	Brightness can be controlled using shortcut keys

Computer environment

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

Table 20. 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)	140 G†	160 G‡
Altitude (maximum)	0 m to 3048 m (0 ft to 10,000 ft)	0 m to 10,668 m (0 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 21. List of keyboard shortcuts

Keys	Description
F1	Mute audio
F2	Decrease volume
F3	Increase volume
F4	Play previous track/chapter
F5	Play/Pause
F6	Play next track/chapter
F8	Switch to external display
F9	Search
F10	Toggle keyboard backlight (optional)
F11	Decrease brightness
F12	Increase brightness
Fn + PrtScr	Turn off/on wireless
Fn + S	Toggle Scroll Lock
Fn + Esc	Toggle Fn-key lock
Fn + B	Pause/Break
Fn + Insert	Sleep
Fn + R	System request
Fn + Ctrl	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 22. Self-help resources

Information about Dell products and services	www.dell.com
Dell Help & Support app	
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 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.