

# Vostro 3681

## 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.

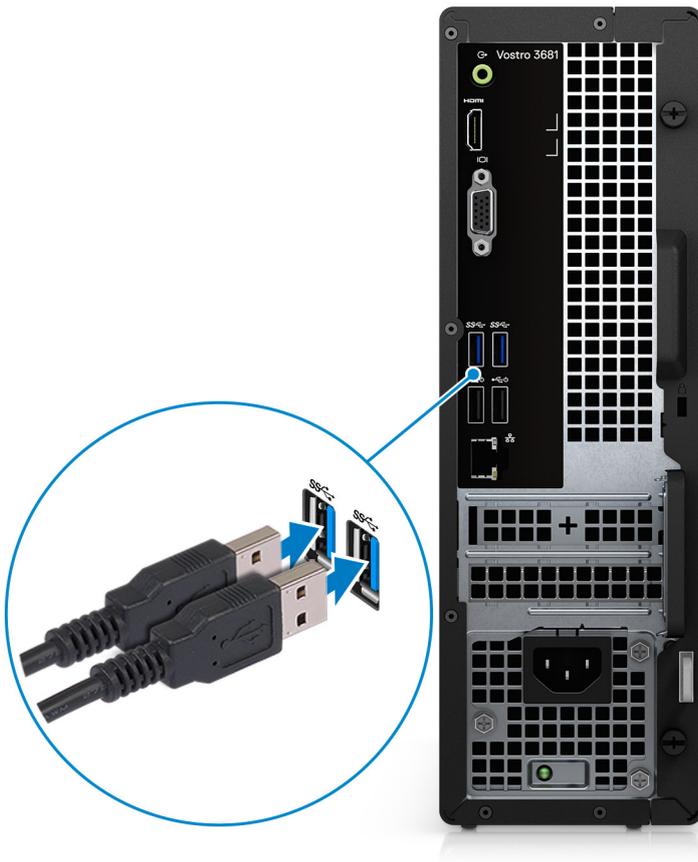
 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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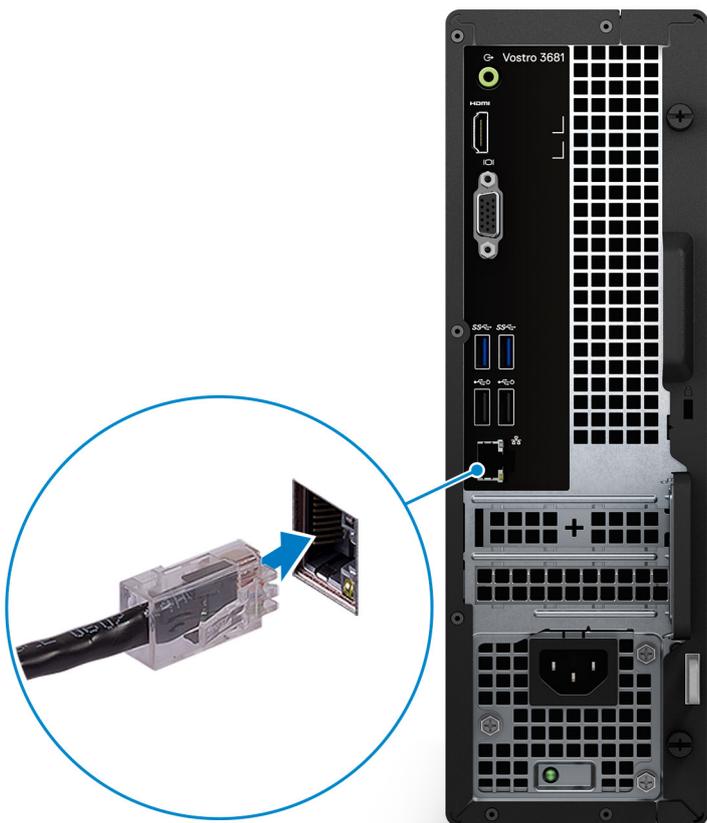
# Set up your computer

## Steps

1. Connect the keyboard and mouse.



2. Connect to your network using a cable, or connect to a wireless network.

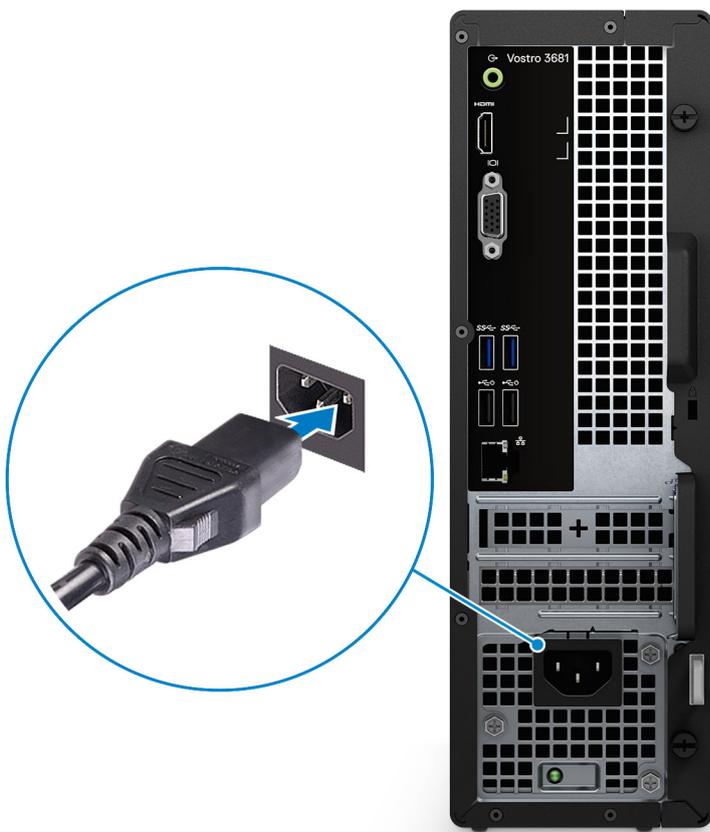


3. Connect the display.



**NOTE:** If you ordered your computer with a discrete graphics card. Connect the display cable to the discrete graphics card connectors.

4. Connect the power cable.



5. Press the power button.



6. Finish operating system setup.

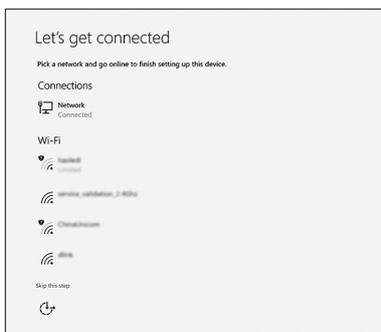
**For Ubuntu:**

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](http://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.

a. Connect to a network.



b. Sign-in to your Microsoft account or create a new account.

Make it yours

Your Microsoft account opens a world of benefits. [Learn more](#)

[Forgot my password](#)

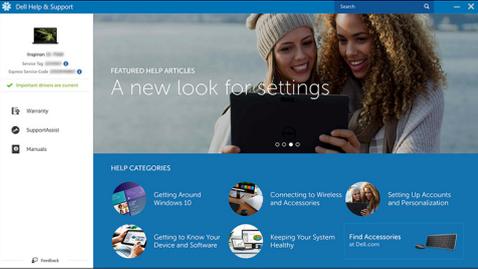
No account? [Create one!](#)

[Microsoft privacy statement](#)

[Sign in](#)

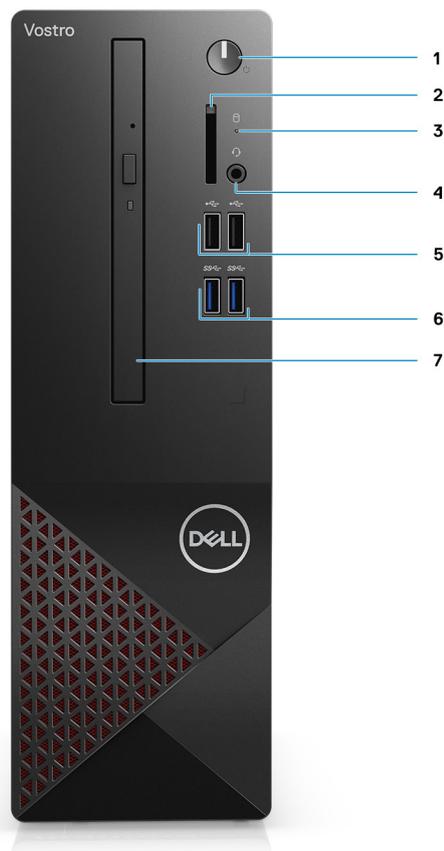
7. Locate and use Dell apps from the Windows Start menu—Recommended.

**Table 1. Locate Dell apps**

	<p><b>Dell Product Registration</b></p> <p>Register your computer with Dell.</p>
	<p><b>Dell Help &amp; Support</b></p> <p>Access help and support for your computer.</p> 
	<p><b>SupportAssist</b></p> <p>Proactively checks the health of your computer's hardware and software.</p> <p><b>NOTE:</b> Renew or upgrade your warranty by clicking the warranty expiry date in SupportAssist.</p>
	<p><b>Dell Update</b></p> <p>Updates your computer with critical fixes and important device drivers as they become available.</p>
	<p><b>Dell Digital Delivery</b></p> <p>Download software applications including software that is purchased but not preinstalled on your computer.</p>

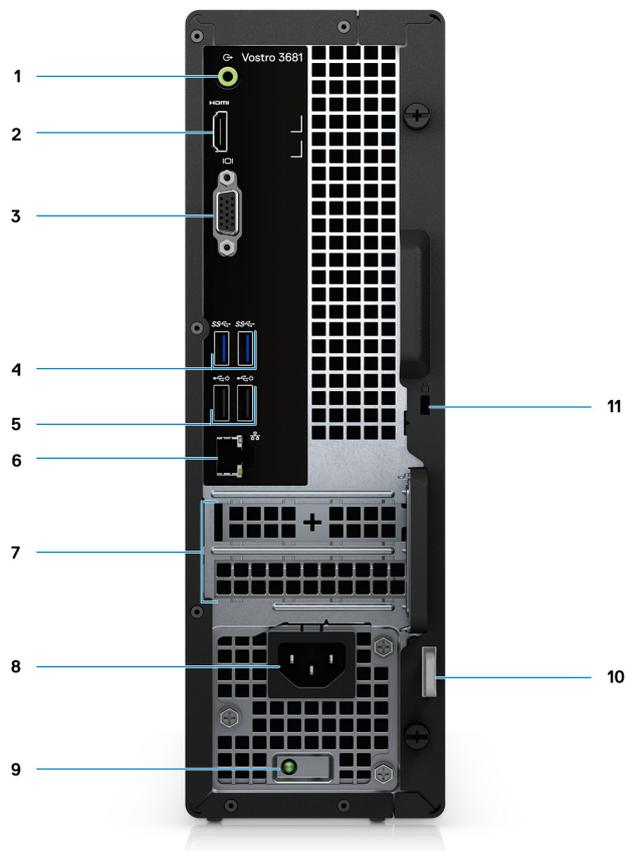
## Chassis overview

### Front



1. Power button
2. SD card reader
3. HDD activity LED
4. Combo audio jack
  - NOTE:** 3.5 mm Global Headset Jack functionality varies by model configuration. For best results, use Dell recommended audio accessories.
5. 2 x USB 2.0 Type-A ports
6. 2 x USB 3.2 Gen 1 Type-A ports
7. 9.5 mm DVD +/- R/W tray type optical drive (optional)

# Back



1.
  - Line-out re-tasking Line-in jack (For Computer with Realtek configuration)
  - Line-out jack (For computer with C-Media configuration)
2. HDMI 1.4b port
3. VGA port
4. 2 x USB 3.2 Gen 1 Type-A ports
5. 2 x USB 2.0 Type-A ports with Smart Power On
6. Ethernet port
7. Expansion slots
8. Power port
9. PSU indicator LED
10. Padlock ring
11. Kensington cable lock slot

# Specifications of Vostro 3681

## Dimensions and weight

**Table 2. Dimensions and weight**

Description	Values
Height	290 mm (11.42 in.)
Width	92.6 mm (3.65 in.)
Depth	292.8 mm (11.53 in.)
Weight (approximate)	4.66 Kg (10.28 lb) — Maximum
<p><b>NOTE:</b> The weight of your system unit varies depending on the configuration ordered and the manufacturing variability.</p>	

## Processors

**NOTE:** Global Standard Products (GSP) are a subset of Dell's relationship products that are managed for availability and synchronized transitions on a worldwide basis. They ensure the same platform is available for purchase globally. This allows customers to reduce the number of configurations managed on a worldwide basis, thereby reducing their costs. They also enable companies to implement global IT standards by locking in specific product configurations worldwide.

**NOTE:** Processor numbers are not a measure of performance. Processor availability is subject to change and may vary by region/country.

**Table 3. Processors**

Processors	Wattage	Core count	Thread count	Speed	Cache	Integrated graphics
10 <sup>th</sup> Generation Intel Pentium Gold G-6400	58 W	2	4	Up to 4.0 GHz	4 MB	Intel UHD Graphics 610
10 <sup>th</sup> Generation Intel Core i3-10100	65 W	4	8	3.6 GHz to 4.3 GHz	6 MB	Intel UHD Graphics 630
10 <sup>th</sup> Generation Intel Core i5-10400F	65 W	6	12	2.9 GHz to 4.3 GHz	12 MB	N/A
10 <sup>th</sup> Generation Intel Core i5-10400	65 W	6	12	2.9 GHz to 4.3 GHz	12 MB	Intel UHD Graphics 630
10 <sup>th</sup> Generation Intel Core i7-10700	65 W	8	16	2.9 GHz to 4.8 GHz	16 MB	Intel UHD Graphics 630

**Table 3. Processors (continued)**

Processors	Wattage	Core count	Thread count	Speed	Cache	Integrated graphics
10 <sup>th</sup> Generation Intel Core i7-10700F	65 W	8	16	2.9 GHz to 4.8 GHz	16 MB	N/A
10 <sup>th</sup> Generation Intel Celeron G-5900	58 W	2	2	Up to 3.4 GHz	2 MB	Intel UHD Graphics 610
10 <sup>th</sup> Intel Celeron G5905	58 W	2	2	Up to 3.5 GHz	4 MB	Intel UHD Graphics 610
10 <sup>th</sup> Intel Pentium Gold 6405	58 W	2	4	Up to 4.1 GHz	4 MB	Intel UHD Graphics
10 <sup>th</sup> Intel Core i3-10105	65 W	4	8	3.7 GHz to 4.4 GHz	6 MB	Intel UHD Graphics
10 <sup>th</sup> Intel Core i5-10505	65 W	6	12	3.2 GHz to 4.6 GHz	12 MB	Intel UHD Graphics 630

## Chipset

**Table 4. Chipset**

Description	Values
Chipset	B460
Processor	10 <sup>th</sup> Generation Intel Core i3/i5/i7 and Intel Pentium Gold G-6400 and Celeron G-5900
DRAM bus width	64-bit
PCIe bus	Up to Gen3

## Operating system

Your Vostro 3681 supports the following operating systems:

- Windows 11 Home, 64-bit
- Windows 11 Home National Academic, 64-bit
- Windows 11 Pro, 64-bit
- Windows 11 Pro National Academic, 64-bit
- Windows 10 Home, 64-bit
- Windows 10 Pro, 64-bit
- Ubuntu 18.04 LTS, 64-bit

## Memory

**Table 5. Memory specifications**

Description	Values
Slots	2 UDIMM slots

**Table 5. Memory specifications (continued)**

Description	Values
Type	DDR4
Speed	<ul style="list-style-type: none"> <li>2666 MHz</li> <li>2933 MHz (supported on Core i7-10700 processor)</li> </ul> <p><b>NOTE:</b> Memory speed may be subject to change by regions.</p>
Maximum memory	64 GB
Minimum memory	4 GB
Memory per slot	4 GB, 8 GB, 16 GB, 32 GB
Configurations supported:	<ul style="list-style-type: none"> <li>4 GB: 1 x 4 GB</li> <li>8 GB: 1 x 8 GB, 8 GB, 2 x 4 GB</li> <li>12 GB: 1 x 4 GB and 1 x 8 GB</li> <li>16 GB: 1 x 16 GB, 2 x 8 GB</li> <li>32 GB: 1 x 32 GB, 2 x 16 GB</li> <li>64 GB: 2 x 32 GB</li> </ul>

## Ports and connectors

**Table 6. Ports and connectors**

Description	Values
<b>Front</b>	
USB	<ul style="list-style-type: none"> <li>Two USB 3.2 Gen 1 Type-A ports</li> <li>Two USB 2.0 Type-A ports</li> </ul>
Audio	<ul style="list-style-type: none"> <li>Universal audio jack (For computer with Realtek configuration)</li> <li>Global headset jack (For computer with C-Media configuration)</li> </ul> <p><b>NOTE:</b> 3.5 mm Global Headset Jack functionality varies by model configuration. For best results, use Dell recommended audio accessories.</p>
<b>Back</b>	
Network	One RJ-45 Port 10/100/1000 Mbps
USB	<ul style="list-style-type: none"> <li>Two USB 3.2 Gen 1 Type-A ports</li> <li>Two USB 2.0 Type-A ports with Smart Power On</li> </ul>
Audio	<ul style="list-style-type: none"> <li>Line-out re-tasking Line-in jack (For Computer with Realtek configuration)</li> <li>Line-out jack (For computer with C-Media configuration)</li> </ul>
Video	<ul style="list-style-type: none"> <li>One HDMI 1.4b port</li> <li>One VGA port</li> </ul> <p><b>NOTE:</b> Video ports are not available with systems configured with Intel Core i5-10400F and i7-10700F processors.</p>

**Table 6. Ports and connectors (continued)**

Description	Values
Memory card reader	SD 4.0 card reader (optional)
Security	<ul style="list-style-type: none"> <li>One Kensington cable lock slot</li> <li>One Padlock ring</li> </ul>
<b>Internal</b>	
Expansion	<ul style="list-style-type: none"> <li>One half-height PCIe x1 slot</li> <li>One half-height PCIe x16 slot</li> </ul>
M.2	<ul style="list-style-type: none"> <li>One M.2 2230 slot for Wi-Fi/Bluetooth card</li> <li>One M.2 2230/2280 slot for solid-state drive</li> </ul> <p><b>NOTE:</b> To learn more about the features of different types of M.2 cards, see the knowledge base article at <a href="https://www.dell.com">https://www.dell.com</a>.</p>

## Communications

### Ethernet

**Table 7. Ethernet specifications**

Description	Values
Model number	Realtek RTL8111HS
Transfer rate	10/100/1000 Mbps

### Wireless module

**Table 8. Wireless module specifications**

Description	Values		
Model number	Intel Wireless-AC 3165 802.11ac 1x1 + Bluetooth 4.2	Intel Wireless-AC 9260 802.11ac 2x2 + Bluetooth 5.0	Realtek RTL8723DE 802.11bgn 1x1 + Bluetooth v4.2
Transfer rate	Up to 433 Mbps	Up to 1.73 Gbps	Up to 150 Mbps
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz	2.4 GHz
Wireless standards	<ul style="list-style-type: none"> <li>WiFi 802.11a/b/g</li> <li>Wi-Fi 4 (WiFi 802.11n)</li> <li>Wi-Fi 5 (WiFi 802.11ac)</li> </ul>	<ul style="list-style-type: none"> <li>WiFi 802.11a/b/g</li> <li>Wi-Fi 4 (WiFi 802.11n)</li> <li>Wi-Fi 5 (WiFi 802.11ac)</li> </ul>	<ul style="list-style-type: none"> <li>WiFi 802.11a/b/g</li> <li>Wi-Fi 4 (WiFi 802.11n)</li> </ul>
Encryption	<ul style="list-style-type: none"> <li>64-bit/128-bit WEP</li> <li>AES-CCMP</li> <li>TKIP</li> </ul>	<ul style="list-style-type: none"> <li>64-bit/128-bit WEP</li> <li>AES-CCMP</li> <li>TKIP</li> </ul>	<ul style="list-style-type: none"> <li>64-bit/128-bit WEP</li> <li>AES-CCMP</li> <li>TKIP</li> </ul>
Bluetooth	Bluetooth 4.2	Bluetooth 5.0	Bluetooth 4.2

# Audio

**Table 9. Audio specifications**

Description	Values	
	Option one	Option two
Type	Stereo High Definition Audio Codec	Stereo USB Audio Codec
Controller	Realtek ALC3246 (For computer with Realtek configuration)	C-Media CM6548 (For computer with C-Media configuration)
Internal interface	High Definition Audio	USB 2.0
External interface	<ul style="list-style-type: none"> <li>One Universal audio jack (front)</li> <li>One Line-out re-tasking Line-in audio jack (rear)</li> </ul>	<ul style="list-style-type: none"> <li>One Global headset jack (front)</li> <li>One Line-out jack (rear)</li> </ul>

# Storage

Your computer supports one or more combination of the following configurations:

- One 3.5-inch, 7200 RPM, SATA hard drive
- One M.2 Gen 3 PCIe x4 NVMe Solid State Drive
- One 9.5 mm DVD +/- R/W tray type optical drive

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
- without a M.2 drive, the 3.5-inch hard drive is the primary drive

**NOTE:** For dual 2.5-inch hard drive and Intel Optane memory configuration, you must disconnect the 2<sup>nd</sup> hard drive from the controller to support Intel Optane memory in the Windows operating system.

**Table 10. Storage specifications**

Storage type	Interface type	Capacity
3.5-inch, 7200 RPM, SATA hard-disk drive	SATA AHCI, up to 6 Gbps	Up to 2 TB
M.2 Class 35 solid-state drive	PCIe x4 NVMe	Up to 512 GB
8x Optical Disk Drive DVD +/- R/W	SATA AHCI	Supplier dependent

**Table 11. 9.5 mm 8x Optical Disk Drive DVD Read/Write**

Description	Values
Type	8x Optical Disk 9.5 mm Drive DVD +/- R/W tray type (optional)
External dimensions without bezel (W x H X D)	8.0 mm (5.04 in)/ 9.5 mm (0.37 in)/ 126.1 mm (4.97 in)
Weight (max)	140 g (0.39 lb)
Interface type and speed	SATA 1.5 Gb/s
Disc capacity	Standard
Internal buffer size	0.5 MB
Access time (typical)	Supplier dependent
<b>Maximum data transfer rates</b>	

**Table 11. 9.5 mm 8x Optical Disk Drive DVD Read/Write (continued)**

Description	Values
Writes	8x DVD/24x CD
Reads	8x DVD/24x CD
<b>Power source</b>	
DC power requirement	5 V
DC current	1300 mA
<b>Environmental Operating Conditions (Non-Condensing):</b>	
Operating Temperature Range	5°C to 50°C
Relative Humidity Range	10% to 90% RH
Maximum Wet Bulb Temperature	29°C
Altitude Range	0 m to 3048 m
<b>Environmental Non-Operating Conditions (Non-Condensing):</b>	
Operating Temperature Range	-40°C to 65°C
Relative Humidity Range	5% to 95% RH
Maximum Wet Bulb Temperature	38°C
Altitude Range	0 m to 10600 m

## Media-card reader

 **NOTE:** Media-card reader is mutually exclusive with a dual M.2 configuration.

**Table 12. Media-card reader specifications**

Description	Values
Type	SD 4.0 card reader (optional)
Cards supported	<ul style="list-style-type: none"> <li>Secure Digital High Capacity (SDHC)</li> <li>Secure Digital Extended Capacity (SDXC)</li> <li>Secure Digital (SD)</li> </ul>

## Power supply unit

**Table 13. Power supply unit specifications**

Description	Values
Type	D9 200 W EPA Bronze
Input voltage	90 VAC to 264 VAC
Input frequency	47 Hz to 63 Hz
Input current (maximum)	3.20 A
Output current (continuous)	<ul style="list-style-type: none"> <li>+12 VA/16.50 A</li> <li>+12 VB/14 A</li> </ul>

**Table 13. Power supply unit specifications (continued)**

Description	Values
	Standby mode: <ul style="list-style-type: none"> <li>+12 VA/0.5 A</li> <li>+12 VB/2.5 A</li> </ul>
Rated output voltage	<ul style="list-style-type: none"> <li>+12 VA</li> <li>+12 VB</li> </ul>
Temperature range:	
Operating	5°C to 45°C (41°F to 113°F)
Storage	-40°C to 70°C (-40°F to 158°F)

## Video

**Table 14. Integrated graphics specifications**

Integrated graphics			
Controller	External display support	Memory size	Processor
Intel UHD 610 Graphics	<ul style="list-style-type: none"> <li>VGA</li> <li>HDMI 1.4b</li> </ul>	Shared system memory	10 <sup>th</sup> Generation Intel Celeron and Pentium Gold
Intel UHD 630 Graphics	<ul style="list-style-type: none"> <li>VGA</li> <li>HDMI 1.4b</li> </ul>	Shared system memory	10 <sup>th</sup> Generation Intel Core i3/i5/i7 processor

**Table 15. Discrete graphics specifications**

Discrete graphics			
Controller	External display support	Memory size	Memory Type
NVIDIA GeForce GT730	<ul style="list-style-type: none"> <li>One HDMI</li> <li>One Dual Link DVI-D</li> </ul>	2 GB	GDDR5

## CMOS battery

**Table 16. CMOS battery**

Brand	Type	Voltage	Composition	Battery life
MITSUBISHI	CR2032	3.0 V	Lithium metal	Continuous Discharge Under 15 kΩ Load to 2.0 V End-Voltage. 20°C±2°C 940 Hrs. or Longer.910 Hrs.or Longer after 12 mo.

## Security

**Table 17. Security**

Security options	Vostro 3681
Kensington cable lock	Supported
Padlock	Supported

## Data security

**Table 18. Data security**

Data security options	Values
Microsoft Windows BitLocker	Supported
Local hard drive data wipe through BIOS (secure erase)	Supported

## Computer environment

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

**Table 19. Computer environment**

Description	Operating	Storage
Temperature range	10°C to 35°C (50°F to 95°F)	-40 °C to 65 °C (-40 °F to 149 °F)
Relative humidity (maximum)	20% to 80% (non-condensing)	5% to 95% (non-condensing)
Vibration (maximum)*	0.26 GRMS	1.37 GRMS
Shock (maximum)	40 G†	105 G‡
Altitude (maximum)	0 m to 3048 m (0 ft to 10,000 ft)	0 m to 10668 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.

## Energy Star and Trusted Platform Module (TPM)

**Table 20. Energy Star and TPM**

Features	Specifications
Energy Star	Compliant
Discrete TPM	Optional

## Environmental

**Table 21. Environmental specifications**

Feature	
Recyclable packaging	Yes
BFR/PVC—free chassis	No
Vertical orientation packaging support	Yes
MultiPack packaging	Yes (DAO only)
Energy-Efficient Power Supply	Standard
ENV0424 compliant	Yes

**NOTE:** Wood-based fiber packaging contains a minimum of 35% recycled content by total weight of wood-based fiber. Packaging that contains without wood-based fiber can be claimed as Not Applicable. Anticipated Required Criteria for EPEAT Revision Effective 1H 2018.

## Service and support

**NOTE:** For more details on Dell Service Plans, see <https://www.dell.com/learn/us/en/19/services/warranty-support-services>.

**Table 22. Service and support**

	<b>Vostro 3681</b>
1-year Base Next Business Day On-site warranty	Standard
2-4 Year Warranty <sup>1</sup> Next Business Day On-site <sup>2</sup> (3-3-3)	Optional
ProSupport	Optional
ProSupport Plus	Optional
Accidental damage	Optional

<sup>1</sup> For a copy of guarantees or limited warranties, write to Dell USA L.P., Attn: Warranties, One Dell Way, Round Rock, TX 78682. For more information, go to [www.dell.com/warranty](http://www.dell.com/warranty).

<sup>2</sup> Service may be provided by third party. Technician is dispatched if necessary, following phone-based troubleshooting. Subject to parts availability, geographical restrictions, and terms of service contract. Service timing dependent upon time-of-day call placed to Dell. U.S.A only.

# Software

This chapter details the supported operating systems along with instructions on how to install the drivers.

## Operating system

Your Vostro 3681 supports the following operating systems:

- Windows 11 Home, 64-bit
- Windows 11 Home National Academic, 64-bit
- Windows 11 Pro, 64-bit
- Windows 11 Pro National Academic, 64-bit
- Windows 10 Home, 64-bit
- Windows 10 Pro, 64-bit
- Ubuntu 18.04 LTS, 64-bit

## Downloading the drivers

### Steps

1. Turn on your computer.
2. Go to [www.dell.com/support](http://www.dell.com/support).
3. Enter the Service Tag of your computer, and then click **Submit**.  
 **NOTE:** If you do not have the Service Tag, use the auto-detect feature or manually browse for your computer model.
4. Click **Drivers & downloads**.
5. Click the **Detect Drivers** button.
6. Review and agree to the Terms and Conditions to use **SupportAssist**, then click **Continue**.
7. If necessary, your computer starts to download and install **SupportAssist**.  
 **NOTE:** Review on-screen instructions for browser-specific instructions.
8. Click **View Drivers for My System**.
9. Click **Download and Install** to download and install all driver updates detected for your computer.
10. Select a location to save the files.
11. If prompted, approve requests from **User Account Control** to make changes on the system.
12. The application installs all drivers and updates identified.  
 **NOTE:** Not all files can be installed automatically. Review the installation summary to identify if manual installation is necessary.
13. For manual download and installation, click **Category**.
14. From the drop-down list, select the preferred driver.
15. Click **Download** to download the driver for your computer.
16. After the download is complete, navigate to the folder where you saved the driver file.
17. Double-click the driver file icon and follow the instructions on the screen to install the driver.

# 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	<a href="http://www.dell.com">www.dell.com</a>
My Dell app	
Tips	
Contact Support	In Windows search, type <code>Contact Support</code> , and press Enter.
Online help for operating system	<a href="http://www.dell.com/support/windows">www.dell.com/support/windows</a>
Access top solutions, diagnostics, drivers and downloads, and learn more about your computer through videos, manuals and documents.	Your Dell computer is uniquely identified by a Service Tag or Express Service Code. To view relevant support resources for your Dell computer, enter the Service Tag or Express Service Code at <a href="http://www.dell.com/support">www.dell.com/support</a> .  For more information on how to find the Service Tag for your computer, see <a href="#">Locate the Service Tag on your computer</a> .
Dell knowledge base articles for a variety of computer concerns	<ol style="list-style-type: none"> <li>1. Go to <a href="http://www.dell.com/support">www.dell.com/support</a>.</li> <li>2. On the menu bar at the top of the Support page, select <b>Support &gt; Knowledge Base</b>.</li> <li>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.</li> </ol>

## Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see [www.dell.com/contactdell](http://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.