Alienware Alpha R2
Setup and Specifications

ALIENWARE

Notes, cautions, and warnings

NOTE: A NOTE indicates important information that helps you make better use of your computer.

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 computer

1   Connect the keyboard and mouse.
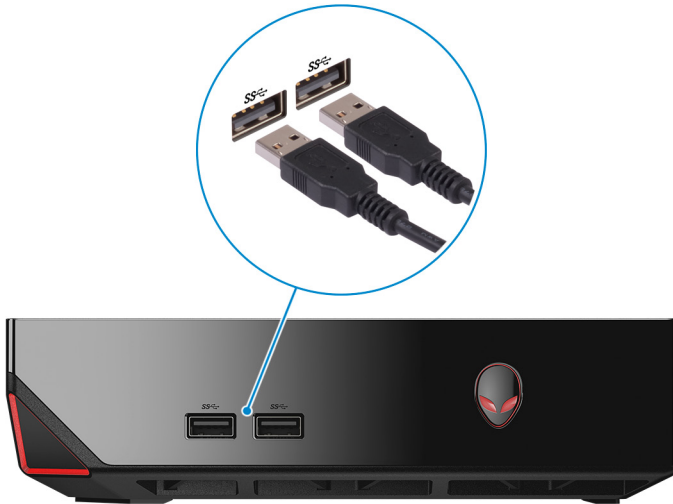
2   Connect the network cable - optional.
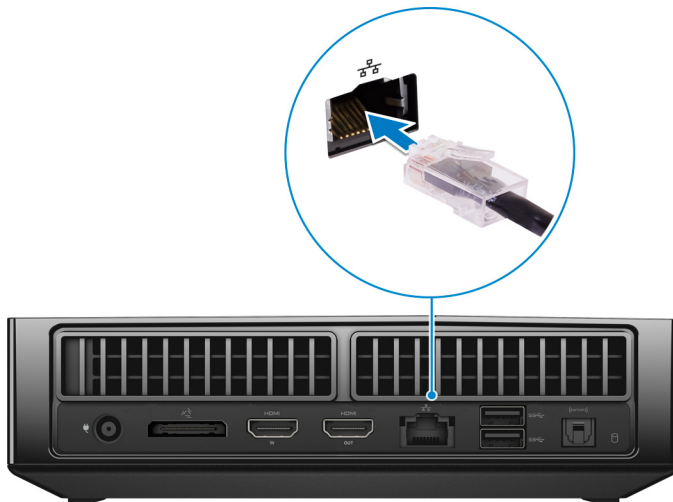
3   Connect the display.

4   Connect the power adapter.

5 Press the power button.

Views

Front

1   **USB 2.0 port (beneath USB port cover)**
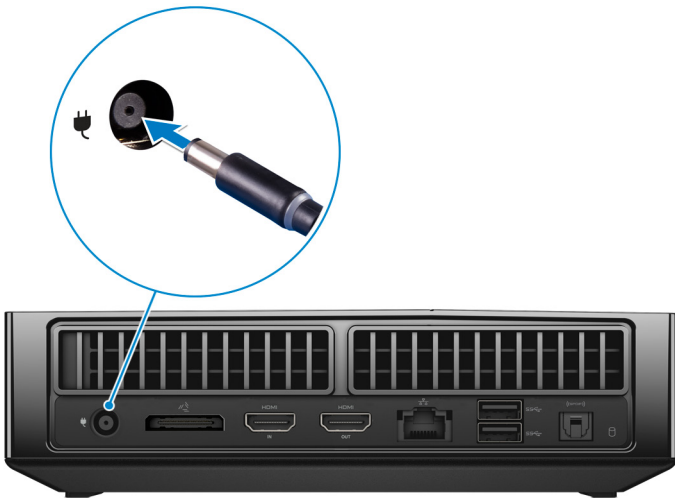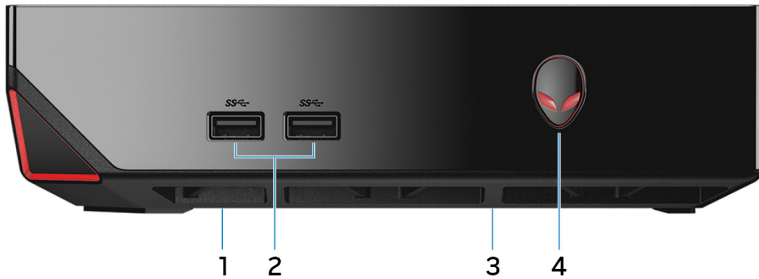
Connect a Bluetooth/wireless dongle for wireless keyboard, mouse, and so on. Provides data transfer speeds up to 480 Mbps.

2   **USB 3.0 ports (2)**

Connect peripherals such as storage devices, printers, and so on. Provide data transfer speeds up to 5 Gbps.

3   **Service tag location**

The service tag is a unique alphanumeric identifier that allows Dell service technicians to identify the hardware components in your computer and access warranty information.

4   **Power button**

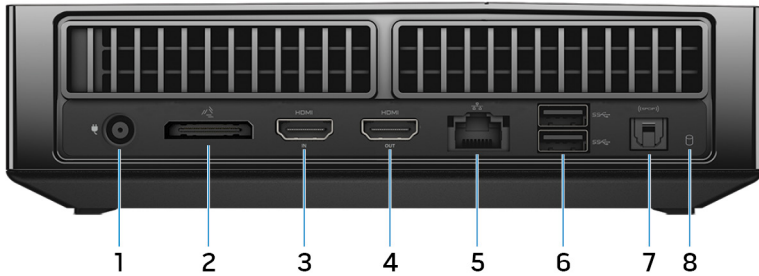Press to turn on the computer if it is turned off or in sleep state.

Press to shut down the computer if it is turned on.

Press and hold for 4 seconds to force shut-down the computer.

> **NOTE:** You can customize the power-button behavior in Power Options. For more information, see *Me and My Dell* at www.dell.com/support.

Back

1 **Power-adapter port**

Connect a power adapter to provide power to your computer.

2 **Graphics Amplifier port**

Connect the Alienware Graphics Amplifier.

3 **HDMI-in port**

Connect a gaming console, Blu-ray player, or other HDMI-out enabled devices.

4 **HDMI-out port**

Connect a monitor, TV, or other HDMI-in enabled devices. 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 3.0 ports (2)**

Connect peripherals such as storage devices, printers, and so on. Provide data transfer speeds up to 5 Gbps.

7 **Optical S/PDIF port**

Connect an amplifier, speakers, or a TV for digital audio output through optical cables.

8 **Hard-drive activity light**

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

Specifications

Dimensions and weight

Height	55 mm (2.17 in)
Width	200 mm (7.87 in)
Depth	200 mm (7.87 in)
Weight	1.81 kg (4 lb)

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

System information

Computer model	Alienware Alpha R2
Processor	• 6th Generation Intel Dual Core i3 • 6th Generation Intel Dual Core i5 • 6th Generation Intel Dual Core i7
Chipset	• Intel H110 • Intel H170
DMI speed	8.0 GT/s (64 bits)

Memory

Slots	One SODIMM slot
Type	DDR4
Speed	2133 MHz
Configurations supported	4 GB, 8 GB, and 16 GB

Ports and connectors

External:	
Network	One RJ45 port
USB	Four USB 3.0 ports
Video/Audio	- One optical S/PDIF port - One HDMI-in port - One HDMI-out port - One Alienware Graphics Amplifier port **NOTE:** The Alienware Graphics Amplifier is supported only on computers with NVidia graphics card (discrete), Intel i5, Intel i7, and Windows 10 operating system. **NOTE:** Your computer is shipped with the Alienware Graphics Amplifier only if you have ordered for it. **NOTE:** The Alienware Graphics Amplifier port is not supported by computers shipped with the AMD video card.

Internal:	
M.2 Card	One M.2 card slot for WLAN and Bluetooth

Communications

Ethernet	10/100/1000 Mbps Realtek RTL8111 Ethernet controller integrated on system board
Wireless	- Wi-Fi 802.11a/g/n - Wi-Fi 802.11a/g/n/ac - Bluetooth

Video

Controller	Memory
NVIDIA GeForce GTX960 GPU	4GB
AMD Radeon R9 M470X	2 GB

Audio

Controller	
	• Intel HD Audio
	• Realtek ALC3234 for optical S/PDIF output

Storage

Interface	SATA 6 Gbps
Hard drive	One 2.5-inch drive
Solid-state drive	One M.2 slot

Power adapter

Type	
	• 130 W
	• 180 W
Input voltage	100 VAC–240 VAC
Input frequency	50 Hz–60 Hz
Output current (continuous)	• 6.70 A • 9.23 A
Rated output voltage	19.50 VDC
Temperature range: Operating	0°C to 40°C (32°F to 104°F)
Temperature range: Storage	–40°C to 70°C (–40°F to 158°F)

Computer environment

Airborne contaminant level: G2 or lower as defined by ISA-S71.04-1985

	Operating	Storage
Temperature range	5°C to 35°C (41°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)*	0.26 GRMS	1.37 GRMS
Shock (maximum)	40 G for 2 ms with a change in velocity of 20 in/s (51 cm/s)†	105 G for 2 ms with a change in velocity of 52.5 in/s (133 cm/s)‡
Altitude (maximum)	–15.20 m to 3048 m (–50 ft to 10,000 ft)	–15.20 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.

Getting help and contacting Alienware

Self-help resources

You can get information and help on Alienware products and services using these online self-help resources:

Information about Alienware products and services	www.alienware.com
Troubleshooting information, user manuals, setup instructions, product specifications, technical help blogs, drivers, software updates, and so on	www.alienware.com/gamingservices
Videos providing step-by-step instructions to service your computer	www.youtube.com/alienwareservices

Contacting Alienware

To contact Alienware for sales, technical support, or customer service issues, see www.alienware.com.

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.