

# G16

*Bigger screen. Made to game.*



Meet the G Series	2
Product features	3-5
Recommended accessories	6
Software included	7
Ports & slots	9-10
Keyboard color options	11
Product gallery	12-14
Technical specs	15
Important information	16

# G16

## Meet the G Series line of gaming laptops

Dell's G Series gaming laptops are engineered with the specific, demanding needs of the gaming audience in mind. From the latest processors to powerful discrete graphics cards to advanced thermals, they make every experience more intense and real – no matter what your level of gaming experience.



### *Essential features*

The Dell G Series laptops are designed for entry-level to mainstream gamers, featuring the latest processors, powerful discrete graphics, a range of storage and memory options, sharp high-resolution displays that can be viewed at any angle, and dual fans for cooling.



### *Purposeful innovation*

Dell strives to help its customers interact with what matters most to them. Innovative technologies help gamers of all levels get more immersed in their games, become engrossed in video content, and more. Lags, delays and buffering become a thing of the past. The latest processors and graphics cards render new worlds. Brilliant displays with narrow borders provide crisp, honest representation of your games, videos and other content. Alienware Command Center enables the ability to customize your gaming experience. Specially tuned audio provides immersive sound. Wireless connects quickly and stays connected. Purposeful innovation makes all of this more fun, especially when it's so seamless.



# G16

## More to see

A 16:10 aspect ratio and 3-sided narrow border allows this laptop to have a larger 16-inch display screen built into a 15-inch laptop. This means gamers get **11% more screen space** to play with on a 16-inch display in an easy to carry 15-inch chassis.

### *Game-ready panel*

The 16:10 QHD display panel has a 2560x1600 resolution with 300 nits brightness, sRGB 100%, and a contrast ratio of 1000:1 typical to render games and videos beautifully. A 165Hz refresh rate and support for NVIDIA® G-SYNC® enables incredibly smooth gameplay.

### *Great graphics*

Immerse yourself in the gaming industry's most popular games thanks to the power of the NVIDIA® GeForce® RTX 3070 Ti and up to 8GB of GDDR6 dedicated memory.





# G16

## Powerful performance

### **Cool tech**

Alienware-inspired thermal design features optimal cooling thanks to dual air-intake, ultra-thin fan blades\*, copper pipes and four strategically-placed vents. As a result, the G16 stays cool when the action heats up.

### **Max performance**

The 12th Gen Intel® i7 14-core processors plus optimized performance profiles deliver powerful and consistent high-end performance.

### **Game saver**

Experience faster boot-ups and more storage space with support for a single PCIe NVMe M.2 SSD up to 2TB.



### **Game longer**

Battery life optimization is made easy with the ability to swap between integrated and discrete graphics.

### **Full speed ahead**

Intel® Wi-Fi 6 AX201 supports 2x2 Wi-Fi 6 technology, delivering data rates of up to 2.4Gbps and increased network capacity as well as Bluetooth® 5.2 support for fast uploads and downloads, low latency and lasting battery life.

# G16

## Sophisticated style

The gaming-inspired design features a sleek, modern aluminum cover in Obsidian Black for when you want to game incognito.



## *Light it up*

New one-zone and per-key RGB backlit keyboards give gamers fully customizable layouts that can be accessed through Alienware Command Center. And for the first time in G Series history, retailers are offering an optional mechanical keyboard with per-key RGB Cherry MX switches.

# G16

Engineered for adventure

## *Game Shift*

When gaming gets critical, activate Game Shift by pressing FN + the Game Shift key (in the F9 position) to trigger dynamic performance mode within the Alienware Command Center without leaving your game. This maximizes the fans' speed to keep the system cool while the processor works harder. When the battle is done, press FN + the Game Shift key again to return the fans to the default mode.

## *Power that lasts*

Gaming doesn't have to revolve around a plug with express charge on a 56Whr 3-cell battery or 6-cell 86Whr battery.

## *Enveloping sound*

Two tuned speakers with Dolby Audio, or a combo headphone/microphone jack surround you with the sounds of your game.

Game Shift key is available on the US English keyboards, or is marked as F9 on non-US keyboards







## RECOMMENDED ACCESSORIES



*Dell 27 Gaming Monitor - G2722HS*

Take your gaming up a notch. Add this FHD 27" IPS monitor to your set up and level up your gameplay with 165Hz refresh rate, 1ms response time, and built-in AMD FreeSync™ Premium and NVIDIA G-Sync Compatibility for fluid, tear-free graphics on a super responsive screen.



*Alienware Wired/Wireless Gaming Mouse – AW610M*

Dual mode wired & wireless gaming mouse with rechargeable lithium ion battery and seven programmable buttons for performance that takes no prisoners.



*Alienware RGB Mechanical Gaming Keyboard – AW410K*

Tactile Cherry MX keyboard designed for responsive, immersive gaming. Features customizable per-key AlienFX RGB lighting with approximately 16.8M colors.



*Alienware Gaming Headset – AW310H*

Ramp up your gameplay on this Alienware Stereo Gaming wired headset with handpicked, custom-tuned 50mm 20Hz-40KHz drivers for Hi-Res audio, featuring a retractable mic with noise cancellation,



*Alienware Horizon Commuter Backpack*

Start your next adventure with the ultimate sidekick. The Alienware Horizon Commuter Backpack combines purpose-built features with intuitive organization, a variety of pockets, and an RFID Safe top pocket.



# G16

## Software included



### *Alienware Command Center*

With the Alienware Command Center on the G16, you can tailor the hardware for every game you play, and personalize the space and setup to make your software look and feel precisely the way you want it, without interfering with your gameplay or other activities.

### *McAfee LiveSafe*

Award-winning security for every device; shields PCs from viruses and online threats like risky websites and dangerous downloads, shreds digital files like e-bills and online bank statements saved on PCs.

### *Microsoft® Office 30-Day trial*

Work with a 30-day trial of your favorite productivity applications: Word, Excel, PowerPoint, and OneNote

### *SupportAssist*

A Microsoft Windows based software program that automates support from Dell by identifying hardware and software issues on Dell laptops, desktops and tablets. SupportAssist notifies customers when an issue is detected.



# G16

## Ports & slots | Side view

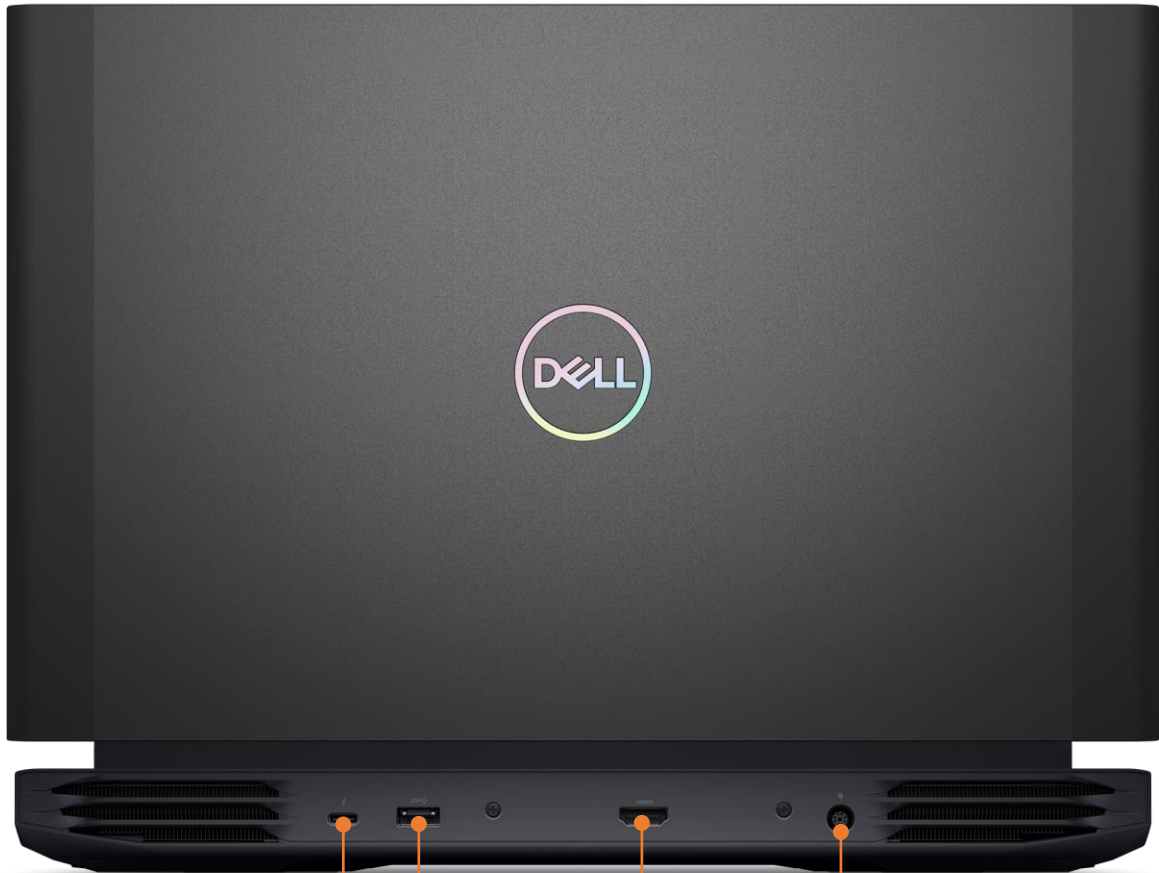


Product appearance may vary slightly from image shown.

\*See page 20 for important information

# G16

## Ports & slots | Rear view



RTX 3050 Ti: USB-C Display Port Alt-Mode  
RTX 3060 and above: Thunderbolt™  
4/USB-C Display Port Alt-Mode

USB 3.2 Gen 1 Type-A

HDMI 2.1

Power-In

Product appearance may vary slightly from image shown.

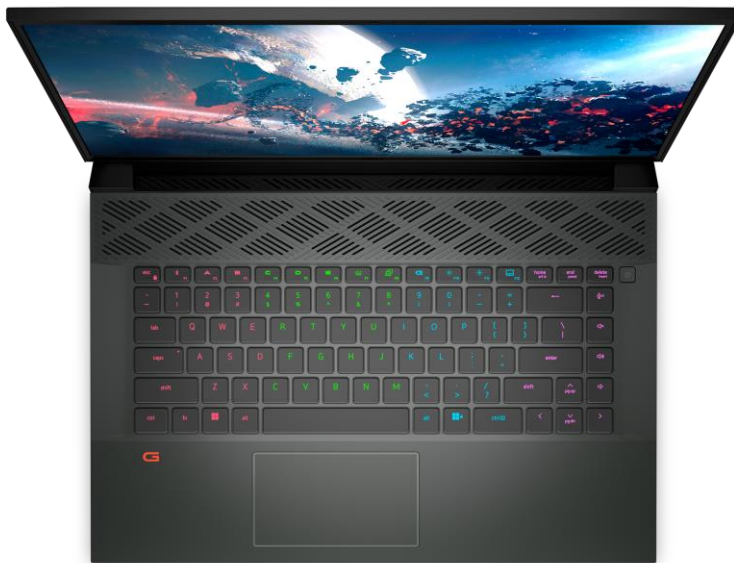
\*See page 20 for important information

# G16

## Keyboard color options



One-zone RGB backlit keyboard



Per-key RGB backlit keyboard

Product appearance may vary slightly from image shown. Not all keyboard options are available in all countries.

# G16

## Product gallery



Product appearance may vary slightly from image shown. Not all keyboard options are available in all countries.



# G16

Product gallery



Product appearance may vary slightly from image shown. Not all keyboard options are available in all countries.

# G16

## Product gallery



Product appearance may vary slightly from image shown. Not all keyboard options are available in all countries.

# G16

<i>Feature</i>	<i>Technical Specification</i>	<i>Feature</i>	<i>Technical Specification</i>
<b>MODEL NUMBER</b>	<b>7620</b>	<b>INPUT</b>	1-Zone RGB backlit full-size, spill-resistant WASD keyboard with Game Shift key at F9 (US English only) Per-key RGB backlit full-size, spill-resistant WASD keyboard with Game Shift key at F9 (US English only) CherryMX ultra low-profile mechanical laptop with per-key RGB backlit full-size, spill-resistant keyboard with Game Shift key at F9 (US English only)
<b>PROCESSOR OPTIONS</b>	12th Gen Intel® Core™ i7-12700H 14-Core Processor (24M Cache, up to 4.7 GHz)		
<b>OPERATING SYSTEM*</b>	Windows® Home Windows® Pro		Precision Touchpad
<b>GRAPHICS</b>	NVIDIA® GeForce RTX™ 3050 Ti 4GB GDDR6 TGP: 80W Dynamic Boost (Performance/G mode): 10W Maximum Graphics Power: 90W  NVIDIA® GeForce RTX™ 3060 6GB GDDR6 TGP: 115W Dynamic Boost (Performance/Game Shift mode/Balanced): 15W Maximum Graphics Power: 130W  NVIDIA® GeForce RTX™ 3070 Ti 8GB GDDR6 TGP: 125W (Performance/Game Shift mode) / 115W (Balanced) Dynamic Boost (Performance/Game Shift mode/Balanced): 15W Maximum Graphics Power: 140W	<b>OPTICAL DRIVE OPTIONS</b>	N/A
		<b>MULTIMEDIA</b>	2 tuned speakers with Dolby Audio for Gamers 1 combo headphone / microphone jack Integrated widescreen HD (720p) Webcam with Dual Array Digital Microphone
		<b>CONNECTIVITY OPTIONS</b>	Intel Wi-Fi 6 AX201, 2x2 802.11ax 1 RTX 3050 Ti: Realtek Ethernet RTX 3060/3070 Ti: Killer™ Ethernet E2600
		<b>BATTERY OPTIONS*</b>	56 WHr, 3-Cell Battery (integrated) with express charge 86 WHr, 6-Cell Battery (integrated) with express charge
		<b>AC ADAPTER</b>	180W AC Adapter 240W AC Adapter
<b>DISPLAY SIZE/ASPECT RATIO</b>	16-inch (diagonal) display panel / 16:10	<b>DIMENSIONS (H x W x D)</b>	26.9 x 357.26 x 272.11 mm / 1.06 x 14.06 x 10.71 in
<b>DISPLAY OPTIONS</b>	QHD (2560 x 1600) 300 nits WVA Anti-Glare LED Backlit Display (non-touch) with 165Hz refresh rate 3-sided narrow borders	<b>STARTING WEIGHT*</b>	Starting weight* is 2.65 kg / 5.84 lbs
<b>MEMORY OPTIONS*</b>	8 - 16GB, 4800 MHz, DDR5; up to 32GB (additional memory sold separately)	<b>COLOR OPTIONS</b>	Obsidian Black aluminum cover
<b>STORAGE OPTIONS* (support for one SSD)</b>	512GB PCIe NVMe M.2 SSD Class 35 1TB PCIe NVMe M.2 SSD Class 35 2TB PCIe NVMe M.2 SSD Class 40	<b>SECURITY</b>	N/A
<b>PORTS &amp; SLOTS</b>	<b>RTX 3050 Ti:</b> (1) HDMI 2.1, (3) SuperSpeed USB 3.2 Gen 1 Type-A, (1) USB-C Display Port Alt-Mode, Headphone/Mic, (1) RJ45 <b>RTX 3060/3070 Ti:</b> (1) HDMI 2.1, (3) SuperSpeed USB 3.2 Gen 1 Type-A, (1) Thunderbolt 4/USB-C Display Port Alt-Mode, Headphone/Mic, (1) RJ45	<b>SOFTWARE</b>	Alienware Command Center, Dell Digital Delivery, Dell Mobile Connect, Dell Recovery Environment, DropBox, Microsoft® Office 2016 trial, McAfee LiveSafe (30-Day)
		<b>PERIPHERAL ECOSYSTEM</b>	Dell 27 Gaming Monitor – G2722HS, Alienware RGB Mechanical Gaming Keyboard – AW410K, Alienware Gaming Headset – AW310H, Alienware Wired/Wireless Gaming Mouse – AW610M, Alienware Horizon Commuter Backpack

Features may vary by region.

Hard Drives: GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

Storage Options: support for only one SSD.

Graphics & shared memory: GB means 1 billion bytes and TB equals 1 trillion bytes; significant system memory may be used to support graphics, depending on system memory size and other factors.

Wireless connectivity: Where wireless access is available. Additional access charges apply in some locations.

Weight: Weights vary depending on configuration and manufacturing variability.

Dell Mobile Connect: Access to mobile apps and mobile apps notifications is available only on Android. See more at <http://www.dell.com/en-us/shop/dell-mobile-connect/ab/dell-mobile-connect>

Limited hardware warranty: For copy of Ltd Hardware Warranty, write Dell USA LP, Attn: Warranties, One Dell Way, Round Rock, TX 78682 or see [www.dell.com/warranty](http://www.dell.com/warranty).

Dell ProSupport™: Availability and terms of Dell Services vary by region. For more information, visit [www.dell.com/service-descriptions](http://www.dell.com/service-descriptions).

Accidental Damage: Service excludes theft, loss, and damage due to fire, flood or other acts of nature, or intentional damage. Customer may be required to return unit to Dell. For complete details, visit [www.dell.com/service-contracts](http://www.dell.com/service-contracts).

Return for Repair after Remote Diagnosis: Remote Diagnosis is determination by online/phone technician of cause of issue; may involve customer access to inside of system and multiple or extended sessions. If issue is covered by Limited Hardware and not resolved remotely, this service offers a 10-14 day mail-in repair option following completion of Remote Diagnosis

Rapid Return for Repair after Remote Diagnosis: Remote Diagnosis is determination by online/phone technician of cause of issue and multiple or extended sessions. If issue is covered by Limited Hardware Warranty ([www.dell.com/warranty](http://www.dell.com/warranty)) and not resolved remotely, shipping instructions will be provided. Next Business Day shipping not available in all areas, which may delay repair and return times. Other conditions apply. For complete details about Rapid Return service, visit [www.dell.com/service-contracts](http://www.dell.com/service-contracts)

#### CAUTION: GEOGRAPHIC LIMITATIONS ON COMPARATIVE ADVERTISING

Comparative claims are not allowed in all countries. Please see below to learn which countries ban Dell vs. Dell claims, and which countries will allow the claims only if based upon independent third party testing. You may also contact Legal Counsel in the Region where the claim will be made for additional guidance.

3rd party testing required (Do not make claims) in: South Africa, Ukraine, Venezuela.

Copyright 2022 Dell Inc. All rights reserved. Intel and Core are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States of America and other countries. Microsoft, Windows, and Windows 10 are registered trademarks of Microsoft Corporation. Other trademarks or trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell disclaims proprietary interest in the marks and names of others. Reproduction in any manner whatsoever without express written permission from Dell Inc. is strictly forbidden.

**G SERIES**