

# ROG Strix G18 (2024) G814

Features **Tech Specs** Awards Gallery Support



**ROG Strix G18 (2024) G814**  
G814JVR-N6049X

COMPARE

**ROG Strix G18 (2024) G814**  
G814JVR-N6048X

COMPARE

**ROG Strix G18 (2024) G814**  
G814JZR-N6109X

COMPARE

**ROG Strix G18 (2024) G814**  
G814JIR-N6075X

COMPARE

OFF Highlight Differences

## OPERATING SYSTEM

Windows 11 Pro

Windows 11 Pro

Windows 11 Pro

Windows 11 Pro

## PROCESSOR

Intel® Core™ i9 Processor 14900HX  
2.2 GHz (36MB Cache, up to 5.8 GHz, 24 cores, 32 Threads)

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2.2 GHz (36MB Cache, up to 5.8 GHz, 24 cores, 32 Threads)

## GRAPHICS

NVIDIA® GeForce RTX™ 4060 Laptop GPU (233 AI TOPs)  
ROG Boost: 2420MHz\* at 140W (2370MHz Boost Clock+50MHz OC, 115W+25W Dynamic Boost)  
8GB GDDR6

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ROG Boost: 2420MHz\* at 140W (2370MHz Boost Clock+50MHz OC, 115W+25W Dynamic Boost)  
8GB GDDR6

NVIDIA® GeForce RTX™ 4080 Laptop GPU (542 AI TOPs)  
ROG Boost: 2330MHz\* at 175W (2280MHz Boost Clock+50MHz OC, 150W+25W Dynamic Boost)  
12GB GDDR6

NVIDIA® GeForce RTX™ 4070 Laptop GPU (321 AI TOPs)  
ROG Boost: 2225MHz\* at 140W (2175MHz Boost Clock+50MHz OC, 115W+25W Dynamic Boost)  
8GB GDDR6

## DISPLAY

ROG Nebula Display  
18-inch  
2.5K (2560 x 1600, WQXGA) 16:10 aspect ratio  
IPS-level  
Anti-glare display  
DCI-P3: 100%  
Refresh Rate: 240Hz  
Response Time: 3ms

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ROG Nebula Display  
18-inch  
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IPS-level  
Anti-glare display  
DCI-P3: 100.00%  
Refresh Rate: 240Hz  
Response Time: 3ms

response time: 5ms	response time: 5ms	response time: 5ms	response time: 5ms
G-Sync	G-Sync	G-Sync	G-Sync
Pantone Validated	Pantone Validated	Pantone Validated	Pantone Validated
MUX Switch + NVIDIA® Advanced Optimus	MUX Switch + NVIDIA® Advanced Optimus	MUX Switch + NVIDIA® Advanced Optimus	MUX Switch + NVIDIA® Advanced Optimus
Support Dolby Vision HDR : Yes	Support Dolby Vision HDR : Yes	Support Dolby Vision HDR : Yes	Support Dolby Vision HDR : Yes

## MEMORY

16GB DDR5-5600 SO-DIMM, the memory speed of the systems vary by CPU SPEC x 2 Max Capacity: 32GB Support dual channel memory	16GB DDR5-5600 SO-DIMM, the memory speed of the systems vary by CPU SPEC x 2 Max Capacity: 32GB Support dual channel memory	32GB DDR5-5600 SO-DIMM, the memory speed of the systems vary by CPU SPEC x 2 Max Capacity: 64GB Support dual channel memory	16GB DDR5-5600 SO-DIMM, the memory speed of the systems vary by CPU SPEC x 2 Max Capacity: 32GB Support dual channel memory
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## STORAGE

2TB PCIe® 4.0 NVMe™ M.2 SSD 2x DDR5 SO-DIMM slots 2x M.2 PCIe	2TB PCIe® 4.0 NVMe™ M.2 SSD 2x DDR5 SO-DIMM slots 2x M.2 PCIe	2TB PCIe® 4.0 NVMe™ M.2 SSD 2x DDR5 SO-DIMM slots 2x M.2 PCIe	2TB PCIe® 4.0 NVMe™ M.2 SSD 2x DDR5 SO-DIMM slots 2x M.2 PCIe 2x DDR5 SO-DIMM slots 2x M.2 PCIe
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## I/O PORTS

1x 3.5mm Combo Audio Jack 1x HDMI 2.1 FRL 2x USB 3.2 Gen 2 Type-A (data speed up to 10Gbps) 1x USB 3.2 Gen 2 Type-C with support for DisplayPort™ / power delivery / G-SYNC (data speed up to 10Gbps) 1x RJ45 LAN port 1x Thunderbolt™ 4 with support for DisplayPort™ (data speed up to 40Gbps)	1x 3.5mm Combo Audio Jack 1x HDMI 2.1 FRL 2x USB 3.2 Gen 2 Type-A (data speed up to 10Gbps) 1x USB 3.2 Gen 2 Type-C with support for DisplayPort™ / power delivery / G-SYNC (data speed up to 10Gbps) 1x RJ45 LAN port 1x Thunderbolt™ 4 with support for DisplayPort™ (data speed up to 40Gbps)	1x 3.5mm Combo Audio Jack 1x HDMI 2.1 FRL 2x USB 3.2 Gen 2 Type-A (data speed up to 10Gbps) 1x USB 3.2 Gen 2 Type-C with support for DisplayPort™ / power delivery / G-SYNC (data speed up to 10Gbps) 1x 2.5G LAN port 1x Thunderbolt™ 4 with support for DisplayPort™ / G-SYNC (data speed up to 40Gbps)	1x 3.5mm Combo Audio Jack 1x HDMI 2.1 FRL 2x USB 3.2 Gen 2 Type-A (data speed up to 10Gbps) 1x USB 3.2 Gen 2 Type-C with support for DisplayPort™ / power delivery / G-SYNC (data speed up to 10Gbps) 1x RJ45 LAN port 1x Thunderbolt™ 4 with support for DisplayPort™ (data speed up to 40Gbps)
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## KEYBOARD AND TOUCHPAD

Backlit Chiclet Keyboard Per-Key RGB Touchpad	Backlit Chiclet Keyboard Per-Key RGB Touchpad	Backlit Chiclet Keyboard Per-Key RGB Touchpad	Backlit Chiclet Keyboard Per-Key RGB Touchpad
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## CAMERA

720P HD camera	720P HD camera	720P HD camera	720P HD camera
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## AUDIO

Smart Amp Technology Dolby Atmos	Smart Amp Technology Dolby Atmos	Smart Amp Technology Dolby Atmos	Smart Amp Technology Dolby Atmos
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AI noise-canceling technology  
Hi-Res certification (for headphone)

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Support Microsoft Cortana near  
field/far field  
Built-in array microphone  
2-speaker system with Smart  
Amplifier Technology

Support Microsoft Cortana near  
field/far field  
Built-in array microphone  
2-speaker system with Smart  
Amplifier Technology

Built-in array microphone  
2-speaker system with Smart  
Amplifier Technology

Built-in array microphone  
2-speaker system with Smart  
Amplifier Technology

## NETWORK AND COMMUNICATION

Wi-Fi 6E(802.11ax) (Triple band) 2\*2  
+ Bluetooth® 5.3 Wireless Card  
(\*Bluetooth® version may change  
with OS version different.)

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Wi-Fi 6E(802.11ax) (Triple band) 2\*2  
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(\*Bluetooth® version may change  
with OS version different.)

## BATTERY

90WHrs, 4S1P, 4-cell Li-ion

90WHrs, 4S1P, 4-cell Li-ion

90WHrs, 4S1P, 4-cell Li-ion

90WHrs, 4S1P, 4-cell Li-ion

## POWER SUPPLY

ø6.0, 280W AC Adapter, Output: 20V  
DC, 14A, 280W, Input: 100~240C AC  
50/60Hz universal  
TYPE-C, 100W AC Adapter, Output:  
20V DC, 5A, 100W, Input: 100~240V  
AC 50/60Hz universal

ø6.0, 280W AC Adapter, Output: 20V  
DC, 14A, 280W, Input: 100~240C AC  
50/60Hz universal  
TYPE-C, 100W AC Adapter, Output:  
20V DC, 5A, 100W, Input: 100~240V  
AC 50/60Hz universal

ø6.0, 330W AC Adapter, Output: 20V  
DC, 16.5A, 330W, Input: 100~240C  
AC 50/60Hz universal  
TYPE-C, 100W AC Adapter, Output:  
20V DC, 5A, 100W, Input: 100~240V  
AC 50/60Hz universal

ø6.0, 280W AC Adapter, Output: 20V  
DC, 14A, 280W, Input: 100~240C AC  
50/60Hz universal  
TYPE-C, 100W AC Adapter, Output:  
20V DC, 5A, 100W, Input: 100~240V  
AC 50/60Hz universal

## AURA SYNC

Yes

Yes

Yes

Yes

## DEVICE LIGHTING

Aura Sync Light Bar  
Aura Sync logo

Aura Sync Light Bar

Aura Sync Light Bar

Aura Sync Light Bar  
Aura Sync logo

## WEIGHT

3.00 Kg (6.61 lbs)

3.00 Kg (6.61 lbs)

3.00 Kg (6.61 lbs)

3.00 Kg (6.61 lbs)

## DIMENSIONS (W X D X H)

39.9 x 29.4 x 2.31 ~ 3.08 cm (15.71"  
x 11.57" x 0.91" ~ 1.21")

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1-month trial for new Microsoft 365 customers. Credit card required.

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## XBOX GAME PASS

Xbox Game Pass for PC\_3 months  
(\*Terms and exclusions apply. Offer only available in eligible markets for Xbox Game Pass for PC. Eligible markets are determined at activation. Game catalog varies by region, device, and time.)

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## ECOLABELS & COMPLIANCES

ENERGY STAR®

ENERGY STAR®

ENERGY STAR®

## SECURITY

BIOS Administrator Password and User Password Protection  
Trusted Platform Module (Firmware TPM)  
McAfee® 30 days free trial

BIOS Administrator Password and User Password Protection  
Trusted Platform Module (Firmware TPM)  
McAfee® 30 days free trial

BIOS Administrator Password and User Password Protection  
Trusted Platform Module (Firmware TPM)  
McAfee® 30 days free trial

BIOS Administrator Password and User Password Protection  
Trusted Platform Module (Firmware TPM)  
McAfee® 30 days free trial

## INCLUDED IN THE BOX

ROG backpack  
ROG Impact Gaming Mouse  
TYPE-C, 100W AC Adapter, Output: 20V DC, 5A, 100W, Input: 100~240V AC 50/60Hz universal  
\*Included accessories vary according to country and territory.  
Please check with your local ASUS retailer for details

ROG backpack  
ROG Impact Gaming Mouse  
TYPE-C, 100W AC Adapter, Output: 20V DC, 5A, 100W, Input: 100~240V AC 50/60Hz universal  
\*Included accessories vary according to country and territory.  
Please check with your local ASUS retailer for details

ROG backpack  
ROG Gladius III Mouse P514  
TYPE-C, 100W AC Adapter, Output: 20V DC, 5A, 100W, Input: 100~240V AC 50/60Hz universal  
Marketing Giveaway (1 Customizable Armor Cap)  
\*Included accessories vary according to country and territory.  
Please check with your local ASUS retailer for details

ROG backpack  
ROG Impact Gaming Mouse  
TYPE-C, 100W AC Adapter, Output: 20V DC, 5A, 100W, Input: 100~240V AC 50/60Hz universal  
\*Included accessories vary according to country and territory.  
Please check with your local ASUS retailer for details



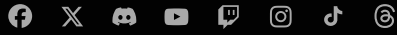
- Please note that this Xbox Game Pass offer must be redeemed within 180 days of activating Windows. Systems that have not activated Windows within two years of their manufacture date will be unable to redeem this offer.
- The standard Asus test environment for battery life is as follows: Windows operating system, display module with 150 nits of brightness, lighting off, and other application settings.
- Video Playback: Testing is done with Wi-Fi/Bluetooth off, Windows Power Plan set to Balanced, Taskbar Power Mode set to Battery Saver, system volume at 67%, and video at full screen, 1080p resolution
- Web Browsing: Testing is done with Wi-Fi/Bluetooth, Windows Power Plan set to Balanced, Taskbar Power Mode set to Better Battery, and using the Weblooper Top50 website in Google Chrome to play the video with a refresh time of 10 seconds.
- Factors that affect battery life include laptop configuration, power settings, and the way it is used. Battery capacity fades with its cycle count and age.
- Quick-charging times apply when using the proper ASUS/ROG adapter included alongside the select model and the system is powered off (via the "shut down" command). In compatible scenarios, batteries

can be recharged to 50% within 30 minutes under the optimal temperature range of 20-45 degrees Celsius. Charging times may vary +/- 10% due to system tolerance.

- The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.
- The actual HDMI version of the products should be checked in the product specifications page respectively.
- Unit with RJ45 port does not support "Power over Ethernet" (PoE), only support data transmission.
- Due to surface-mounted components near the motherboard's M.2 slot, only single-sided SSDs are supported.
- Products certified by the Federal Communications Commission and Industry Canada will be distributed in the United States and Canada. Please visit the ASUS USA and ASUS Canada websites for information about locally available products.
- All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets.
- Specifications and features vary by model, and all images are illustrative. Please refer to specification pages for full details.
- PCB color and bundled software versions are subject to change without notice.
- Brand and product names mentioned are trademarks of their respective companies.
- Unless otherwise stated, all performance claims are based on theoretical performance. Actual figures may vary in real-world situations.
- The actual transfer speed of USB 3.0, 3.1, 3.2, and/or Type-C will vary depending on many factors including the processing speed of the host device, file attributes and other factors related to system configuration and your operating environment.


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