

COMPARE RESULT

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ROG Zephyrus G15 (2022)
GA503
GA503RS-LN024W



ROG Zephyrus G15 (2022)
GA503
GA503RM-LN119W



ROG Zephyrus G15 (2022)
GA503
GA503RW-LN087W

Operating System

Windows 11 Home

Windows 11 Home

Windows 11 Home

Processor

AMD Ryzen™ 9 6900HS Mobile Processor (8-core/16-thread, 16MB cache, up to 4.9 GHz max boost)

AMD Ryzen™ 9 6900HS Mobile Processor (8-core/16-thread, 16MB cache, up to 4.9 GHz max boost)

AMD Ryzen™ 9 6900HS Mobile Processor (8-core/16-thread, 16MB cache, up to 4.9 GHz max boost)

Graphics

NVIDIA® GeForce RTX™ 3080 Laptop GPU
ROG Boost: 1295MHz* at 120W (1245MHz Boost Clock+50MHz OC, 100W+20W Dynamic Boost)
8GB GDDR6

NVIDIA® GeForce RTX™ 3060 Laptop GPU
ROG Boost: 1475MHz* at 120W (1425MHz Boost Clock+50MHz OC, 100W+20W Dynamic Boost)
6GB GDDR6

NVIDIA® GeForce RTX™ 3070 Ti Laptop GPU
ROG Boost: 1085MHz* at 120W (1035MHz Boost Clock+50MHz OC, 100W+20W Dynamic Boost)
8GB GDDR6

Display

15.6-inch
WQHD (2560 x 1440) 16:9
Anti-glare display

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WQHD (2560 x 1440) 16:9
Anti-glare display

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WQHD (2560 x 1440) 16:9
Anti-glare display



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Refresh Rate:

Refresh Rate:

Refresh Rate:

240Hz
Response Time:
3ms
IPS-level
Adaptive-Sync
Pantone Validated
MUX Switch + Optimus
Support Dolby Vision HDR :
Yes

240Hz
Response Time:
3ms
IPS-level
Adaptive-Sync
Pantone Validated
MUX Switch + Optimus
Support Dolby Vision HDR :
Yes

240Hz
Response Time:
3ms
IPS-level
Adaptive-Sync
Pantone Validated
MUX Switch + Optimus
Support Dolby Vision HDR :
Yes

Memory

16GB DDR5 on board
16GB DDR5-4800 SO-DIMM
Max Capacity:
48GB
Support dual channel memory

8GB DDR5 on board
8GB DDR5-4800 SO-DIMM
Max Capacity:
40GB
Support dual channel memory

16GB DDR5 on board
16GB DDR5-4800 SO-DIMM
Max Capacity:
48GB
Support dual channel memory

Storage

1TB PCIe® 4.0 NVMe™ M.2 SSD

1TB PCIe® 4.0 NVMe™ M.2 SSD

1TB PCIe® 4.0 NVMe™ M.2 SSD

I/O Ports

1x 3.5mm Combo Audio Jack
1x HDMI 2.0b
2x USB 3.2 Gen 2 Type-A
1x RJ45 LAN port
2x USB 3.2 Gen 2 Type-C support DisplayPort™ /
power delivery
1x card reader (microSD) (UHS-II)

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1x HDMI 2.0b
2x USB 3.2 Gen 2 Type-A
1x RJ45 LAN port
2x USB 3.2 Gen 2 Type-C support DisplayPort™ /
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1x 3.5mm Combo Audio Jack
1x HDMI 2.0b
2x USB 3.2 Gen 2 Type-A
1x RJ45 LAN port
2x USB 3.2 Gen 2 Type-C support DisplayPort™ /
power delivery
1x card reader (microSD) (UHS-II)

Keyboard and Touchpad

Backlit Chiclet Keyboard 1-Zone RGB
Touchpad

Backlit Chiclet Keyboard 1-Zone RGB
Touchpad

Backlit Chiclet Keyboard 1-Zone RGB
Touchpad

Camera



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Audio

Smart Amp Technology

Dolby Atmos

AI noise-canceling technology

Hi-Res certification

Built-in array microphone

2x 2W Tweeter

Smart Amp Technology

Dolby Atmos

AI noise-canceling technology

Hi-Res certification

Built-in array microphone

2x 2W Tweeter

2x 2W dual-force woofer with Smart Amp
Technology

Smart Amp Technology

Dolby Atmos

AI noise-canceling technology

Hi-Res certification

Built-in array microphone

2x 2W Tweeter

2x 2W dual-force woofer with Smart Amp
Technology

Network and Communication

Wi-Fi 6E(802.11ax) (Triple band) 2*2 + Bluetooth 5.2
(*BT version may change with OS version different.)

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(*BT version may change with OS version different.)

Wi-Fi 6E(802.11ax) (Triple band) 2*2 + Bluetooth 5.2
(*BT 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

Power Supply

ø6.0, 240W AC Adapter, Output: 20V DC, 12A, 240W,
Input: 100~240V AC 50/60Hz universal
TYPE-C, 100W AC Adapter, Output: 20V DC, 5A,
100W, Input: 100~240V AC 50/60Hz universal

ø6.0, 200W AC Adapter, Output: 20V DC, 10A, 200W,
Input: 100~240V AC, 50/60Hz universal
TYPE-C, 100W AC Adapter, Output: 20V DC, 5A,
100W, Input: 100~240V AC 50/60Hz universal

ø6.0, 240W AC Adapter, Output: 20V DC, 12A, 240W,
Input: 100~240V AC 50/60Hz universal
TYPE-C, 100W AC Adapter, Output: 20V DC, 5A,
100W, Input: 100~240V AC 50/60Hz universal

Weight

1.90 Kg (4.19 lbs)

1.90 Kg (4.19 lbs)

1.90 Kg (4.19 lbs)

Dimensions (W x D x H)

35.5 x 24.3 x 1.99 ~ 1.99 cm (13.98" x 9.57" x 0.78"
~ 0.78")

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BIOS Administrator Password and User Password



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BIOS Administrator Password and User Password

Protection
Kensington Nano Security Slot™

Protection
Kensington Security Slot™

Protection
Kensington Security Slot™
Trusted Platform Module (Firmware TPM)

Included in the Box

ROG backpack
ROG Delta headset
ROG Chakram Core mouse P511
TYPE-C, 100W AC Adapter, Output: 20V DC, 5A,
100W, Input: 100~240V AC 50/60Hz universal

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ROG Delta headset
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