



Part No	**90NR0NT2-M004U0**
Sales Model Name	**ZEPHYRUS-DUO-GX651AX-DR1W**
EAN Code	**4711636447416**
UPC Code	**199291447417**
BASE UNIT	**VSNR0NT2-BU1100**
Marketing Name	**ROG Zephyrus Duo 16**
Operating System	**Windows 11 Home**
Office	**1-month trial for new Microsoft 365 customers. Credit card required.**
Color	**Stellar Grey**
Dimension (W x D x H)	**35.5 x 24.6 x 1.99 ~ 2.49 cm (13.98" x 9.69" x 0.78" ~ 0.98")**
Weight	**2.82 Kg (6.22 lbs)**
Processor	**Intel® Core™ Ultra 9 Processor 386H 2.1 GHz (18MB Cache, up to 4.9 GHz, 16 cores, 16 Threads); Intel® NPU up to 50TOPS**
Chipset	**N/A**
Intergrated GPU	**Intel® Graphics**
Discrete/Optimus	**MUX Switch + NVIDIA® Advanced Optimus**
Graphic	**NVIDIA® GeForce RTX™ 5090 Laptop GPU**
Graphic Memory	**24GB GDDR7**
Neural Processor	**Intel® NPU up to 50TOPS**
Panel Size	**16-inch**
Resolution	**3K (2880 x 1800) OLED 16:10 aspect ratio**
Refresh Rate	**120Hz**
Response Time (G2G)	**0.2ms**
Touch Screen	**Touch Screen**
Viewing Angle	**85/85/85/85**
Panel Tech	**OLED**
Brightness	**1100nits**
Contrast Ratio	**1,000,000:1**
DCI-P3 %	**100%**
Surface texture of display	**Anti-glare display**
Adaptive-Sync technology	**G-Sync**
Pantone	**Pantone Validated**
Nebula Display	**ROG Nebula HDR Display**
Support Dolby Vision HDR	**Yes**
Stylus support	**Yes**
Thermal Feature	**ROG intelligent cooling**

On board memory	**64GB LPDDR5X 8533 on board(Actual memory speeds may vary by CPU configuration.)**
Total System Memory	**LPDDR5X 64GB**
Memory Slot	**2x SO-DIMM slots**
Memory Max.	**64GB**
Multi-channel memory technology	**Support dual channel memory technology**
How to upgrade memory	**Not Available**
Storage	**2TB PCIe® 5.0 NVMe™ M.2 Performance SSD**
M.2 slots support either SATA or NVMe	**2**
M.2 SSD Support List	**1TB M.2 NVMe™ PCIe® G5x4 Performance SSD** **2TB M.2 NVMe™ PCIe® G5x4 Performance SSD** **2TB M.2 NVMe™ PCIe® G4x4 Value SSD** **1TB M.2 NVMe™ PCIe® G4x4 Value SSD**
Expansion Slot (includes used)	**2x M.2 PCIe**
LAN	**N/A**
On board Wireless	**Wi-Fi 7(802.11be) (Triple band) 2*2 + Bluetooth® 6.0 Wireless Card (*Bluetooth® version may change with OS version different.)**
I/O Ports	**2x Thunderbolt™ 4 with support for DisplayPort™ / power delivery (data speed up to 40Gbps)** **2x USB 3.2 Gen 2 Type-A (data speed up to 10Gbps)** **1x card reader (microSD) (UHS-II, 312MB/s)**
Display output	**1x HDMI 2.1 FRL support HDMI switch**
Camera	**1080P FHD IR Camera for Windows Hello**
Mic	**Built-in array microphone**
Keyboard Type	**Backlit Chiclet Keyboard 1-Zone RGB** **With Copilot key** ***Copilot in Windows (in preview) is rolling out gradually within the latest update to Windows 11 in select global markets. Timing of availability varies by device and market. Learn more: https://www.microsoft.com/en-us/windows/copilot-ai-features?r=1#faq**
Aura Sync	**AURA SYNC function is only available when the laptop is connected via Pogo pin**
Touchpad	**N/A** **N/A**
FingerPrint	**N/A**
Speakers	**4-speaker (dual-force woofer) system with Smart Amplifier Technology, 2 Tweeters**
Audio	**1x 3.5mm Combo Audio Jack** **Built-in array microphone**
Audio Tech	**AI noise-canceling technology** **Dolby Atmos** **Smart Amp Technology**
Security	**BIOS Administrator Password and User Password Protection** **Pluton Security Processor** **Secured-core PC (Level 3)** **Trusted Platform Module (Firmware TPM)**
Antivirus	**N/A**
Battery	**90WHrs, 4S1P, 4-cell Li-ion**
Fast charging	**Recharge from 0-50% in 30 minutes**
Power	**Rectangle Conn, 250W AC Adapter, Output: 20V DC, 12.5A, 250W, Input: 100-240V AC, 50/60Hz universal**
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.)** **Xbox Game Pass Premium_2 months (*Terms and exclusions apply. Offer only available in eligible markets for Xbox Game Pass Premium. Eligible markets are determined at activation. Game catalog varies by region, device, and time.)**
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