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|--------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Part No                  | 90NR0BI1-M000W0                                                                                                            |
| Sales Model Name         | GX650PY-NM017W                                                                                                             |
| EAN Code                 | 4711387289594                                                                                                              |
| UPC Code                 | 197105289598                                                                                                               |
| WEEE                     | 3.384                                                                                                                      |
| BASE UNIT                | VSNR0BI1-BU3100                                                                                                            |
| Marketing Name           | ROG Zephyrus Duo 16                                                                                                        |
| Operating System         | Windows 11 Home                                                                                                            |
| Office                   | 1-month trial for new Microsoft 365 customers. Credit card required.                                                       |
| Color                    | Black                                                                                                                      |
| Dimension (W x D x H)    | 35.5 x 26.6 x 2.05 ~ 2.97 cm (13.98" x 10.47" x 0.81" ~ 1.17")                                                             |
| Weight                   | 2.67 Kg (5.89 lbs)                                                                                                         |
| Processor                | AMD Ryzen™ 9 7945HX Mobile Processor (16-core/32-thread, 64MB L3 cache, up to 5.4 GHz max boost)                           |
| Chipset                  | N/A                                                                                                                        |
| Intergrated GPU          | AMD Radeon™ Navi2 Graphics                                                                                                 |
| Discrete/Optimus         | Optimus                                                                                                                    |
| Graphic                  | NVIDIA® GeForce RTX™ 4090 Laptop GPU (686 AI TOPs)                                                                         |
| Graphic Wattage          | ROG Boost: 2090 MHz* at 175W (2040MHz Boost Clock+50MHz OC, 140W+15W Dynamic Boost in Turbo Mode, 150W+25W in Manual Mode) |
| Graphic Memory           | 16GB GDDR6                                                                                                                 |
| Panel Size               | 16-inch                                                                                                                    |
| Resolution               | QHD+ 16:10 (2560 x 1600, WQXGA)                                                                                            |
| Refresh Rate             | 240Hz                                                                                                                      |
| Response Time (G2G)      | 3ms                                                                                                                        |
| Viewing Angle            | 85/85/85/85                                                                                                                |
| Panel Tech               | Mini LED                                                                                                                   |
| Brightness               | 1100                                                                                                                       |
| Contrast Ratio           | 100000:1                                                                                                                   |
| DCI-P3 %                 | 100                                                                                                                        |
| Glare                    | Anti-glare display                                                                                                         |
| Adaptive-Sync technology | FreeSync Premium Pro                                                                                                       |
| Pantone                  | Pantone Validated                                                                                                          |
| Support Dolby Vision HDR | Yes                                                                                                                        |
| On board memory          | N/A                                                                                                                        |
| DIMM Memory              | 16GB DDR5-4800 SO-DIMM *2                                                                                                  |
| Total System Memory      | DDR5 32GB                                                                                                                  |
| Memory Slot              | 2x SO-DIMM slots                                                                                                           |
| Memory Max.              | 64GB                                                                                                                       |

|                                       |                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Multi-channel memory technology       | Support dual channel memory                                                                                                                                                                                                                                                                                                 |
| How to upgrade memory                 | Upgradable; dedicate Memory door on Bottom side                                                                                                                                                                                                                                                                             |
| Storage                               | 1TB PCIe® 4.0 NVMe™ M.2 Performance SSD                                                                                                                                                                                                                                                                                     |
| M.2 slots support either SATA or NVMe | 2                                                                                                                                                                                                                                                                                                                           |
| M.2 SSD Support List                  | 1. 2xPCIe*4<br>2. 1TB / 2TB/ 2TB+2TB (RAID 0)                                                                                                                                                                                                                                                                               |
| Expansion Slot (includes used)        | 2x DDR5 SO-DIMM slots<br>2x M.2 PCIe                                                                                                                                                                                                                                                                                        |
| LAN                                   | 10/100/1000/2500 Mbps                                                                                                                                                                                                                                                                                                       |
| Wireless                              | Wi-Fi 6E(802.11ax) (Triple band) 2*2 + Bluetooth® 5.3 Wireless Card (*Bluetooth® version may change with OS version different.)                                                                                                                                                                                             |
| I/O Ports                             | 1x 2.5G LAN port<br>1x USB 3.2 Gen 2 Type-C with support for DisplayPort™ / G-SYNC (data speed up to 10Gbps)<br>1x USB 3.2 Gen 2 Type-C with support for DisplayPort™ / power delivery / G-SYNC (data speed up to 10Gbps)<br>2x USB 3.2 Gen 2 Type-A (data speed up to 10Gbps)<br>1x card reader (microSD) (UHS-II 312MB/s) |
| Display output                        | 1x HDMI 2.1 FRL                                                                                                                                                                                                                                                                                                             |
| Camera                                | 1080P FHD camera                                                                                                                                                                                                                                                                                                            |
| Mic                                   | Built-in 3-microphone array                                                                                                                                                                                                                                                                                                 |
| Keyboard Type                         | Backlit Chiclet Keyboard Per-Key RGB                                                                                                                                                                                                                                                                                        |
| Aura Sync                             | Yes                                                                                                                                                                                                                                                                                                                         |
| Touchpad                              | Touchpad<br>Support NumberPad                                                                                                                                                                                                                                                                                               |
| ScreenPad™                            | ScreenPad™ Plus (14" 3840 x 1100(4K) IPS-level Panel Support Stylus)                                                                                                                                                                                                                                                        |
| Speakers                              | 4-speaker (dual-force woofer) system with Smart Amplifier Technology, 2 Tweeters                                                                                                                                                                                                                                            |
| Audio                                 | 1x 3.5mm Combo Audio Jack<br>Built-in 3-microphone array                                                                                                                                                                                                                                                                    |
| Audio Tech                            | AI noise-canceling technology<br>Dolby Atmos<br>Hi-Res certification (for headphone)<br>Smart Amp Technology<br>Support Microsoft Cortana near field/far field                                                                                                                                                              |
| Security                              | BIOS Administrator Password and User Password Protection<br>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                                 | ø6.0, 330W AC Adapter, Output: 20V DC, 16.5A, 330W, Input: 100~240C AC 50/60Hz universal                                                                                                                                                                                                                                    |
| Included in the Box                   | TYPE-C, 100W AC Adapter, Output: 20V DC, 5A, 100W, Input: 100~240V AC 50/60Hz universal<br>Palm rest                                                                                                                                                                                                                        |
| Reparability Index (for France)       | 8.4                                                                                                                                                                                                                                                                                                                         |

