

## Specification

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| <b>CPU</b>   | 12th Gen Intel® Core™ i5-12450H processor<br>8 cores (4 P-cores + 4 E-cores), Max Turbo Frequency 4.4 GHz  |
| <b>Operating Systems</b>                                   | Windows 11 Home (MSI recommends Windows 11 Pro for business.)  |
| <b>Display</b>   | 15.6" FHD(1920x1080), 144Hz Refresh Rate, IPS-Level  |
| <b>Chipset</b>   | Integrated SoC   |
| <b>Discrete Graphics</b>                                   | NVIDIA® GeForce RTX™ 3050 Laptop GPU<br>Up to 1172.5MHz Boost Clock 45W Maximum Graphics Power with Dynamic Boost. *May vary by scenario   |
| <b>Video Memory</b>  | 4GB GDDR6  |
| <b>Memory</b>  | 8GB*2 DDR4-3200  |
| <b>Memory Slot and Max Capacity</b>                        | DDR4-3200, 2 Slots, Max 64GB   |
| <b>Storage</b>   | 512GB*1 NVMe SSD PCIe Gen4<br>"Please consult service center for upgrading SSD."   |
| <b>Storage Slot</b>  | 1x M.2 SSD slot (NVMe PCIe Gen4)<br>1x 2.5" SATA HDD   |
| <b>Keyboard</b>  | Single Backlit Keyboard (Blue)   |
| <b>WebCam</b>  | HD type (30fps@720p)   |
| <b>Audio</b>   | 2x 2W Audio Speaker<br>Hi-Res Audio Ready<br>DTS Audio Processing  |
| <b>Audio Port</b>  | 1x Mic-in, 1x Headphone-out  |
| <b>USB Ports</b>   | 3x Type-A USB3.2 Gen1<br>1x Type-C (USB3.2 Gen1 / DisplayPort™)  |
| <b>Video Ports</b>   | 1x HDMI™ (4K @ 30Hz)   |
| <b>LAN</b>   | Gigabit Ethernet   |
| <b>Wi-Fi/ Bluetooth</b>                                    | Intel® Wi-Fi 6E AX211, Bluetooth v5.3  |
| <b>Security</b>  | Firmware Trusted Platform Module(fTPM) 2.0, Kensington Lock  |
| <b>cmsfront_lang_auto_spec.sku_column_group_nb_Adapter</b> | 120W Adaptor   |
| <b>Battery</b>   | 3-Cell<br>52.4 Whrs  |
| <b>Dimension (WXDXH)</b>                                   | 359 x 254 x 21.7 mm  |
| <b>Weight (W/ Battery)</b>                                 | 1.86 kg  |
| <b>Chassis Color</b>                                       | Cosmos Gray  |
| <b>Warranty</b>  | 1 years limited warranty   |
| <b>Xbox Game Pass</b>                                      | One month of PC Game Pass<br>*Spec may vary by model. Please refer to the final spec of the product purchased for Xbox Game Pass pre-installed details.*Spec and bundle offer may vary by model and by country. Please refer to the final specification of the product purchased for Xbox Game Pass pre-installed details. |