

## Specification

|                                     |   |
|-------------------------------------|---|
| <b>CPU</b>                          | 12th Gen Intel® Core™ i7-12650H processor<br>10 cores (6 P-cores + 4 E-cores), Max Turbo Frequency 4.7 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>Boost Clock 75W Maximum Graphics Power with Dynamic Boost.<br>*May vary by scenario   |
| <b>Video Memory</b>                 | 6GB GDDR6   |
| <b>Memory</b>                       | 8GB*2 DDR5  |
| <b>Memory Slot and Max Capacity</b> | DDR5-4800, 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>                 | 2x M.2 SSD slot (NVMe PCIe Gen4)  |
| <b>Keyboard</b>                     | 4-Zone RGB Gaming Keyboard  |
| <b>WebCam</b>                       | HD type (30fps@720p)  |
| <b>Audio</b>                        | 2x 2W Audio Speaker<br>Nahimic 3 Audio Enhancer, Hi-Res Audio Ready   |
| <b>Audio Port</b>                   | 1x Mic-in/Headphone-out Combo Jack  |
| <b>USB Ports</b>                    | 2x Type-A USB3.2 Gen1<br>1x Type-A USB2.0<br>1x Type-C (USB3.2 Gen1 / DisplayPort™)   |
| <b>Video Ports</b>                  | 1x HDMI™ 2.1 (8K @ 60Hz / 4K @ 120Hz)   |
| <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  |
| <b>Adapter</b>                      | 180W Adaptor  |
| <b>Battery</b>                      | 3-Cell<br>53.5 Whrs   |
| <b>Dimension (WxDxH)</b>            | 359 x 259 x 24.9 mm   |
| <b>Weight (W/ Battery)</b>          | 2.25 kg   |
| <b>Chassis Color</b>                | Black   |
| <b>Warranty</b>                     | 1 years limited warranty  |
| <b>Xbox Game Pass</b>               | 2 Month Xbox Game Pass Essential included.<br>*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. |