



L A P T O P Y

## Thin GF63 12V

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## Specification

<b>CPU</b>	12th Gen Intel® Core™ i5-12450H processor 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™ 4050 Laptop GPU powers advanced AI with 194 AI TOPS Up to 1605MHz Boost Clock 45W Maximum Graphics Power with Dynamic Boost. *May vary by scenario
<b>Video Memory</b>	6GB 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
<b>Storage Slot</b>	1x M.2 SSD slot (NVMe PCIe Gen4) 1x 2.5" SATA HDD
<b>Keyboard</b>	Single Backlit Keyboard (Red)
<b>WebCam</b>	HD type (30fps@720p)
<b>Audio</b>	2x 2W Audio Speaker Nahimic 3 Audio Enhancer, Hi-Res Audio Ready
<b>Audio Port</b>	1x Mic-in, 1x Headphone-out
<b>USB Ports</b>	3x Type-A USB3.2 Gen1 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 6 AX201, Bluetooth v5.2
<b>Security</b>	Kensington Lock
<b>AC Adapter</b>	120W Adaptor
<b>Battery</b>	3-Cell 52.4 Whrs 4600 Mah
<b>Dimension (WxDxH)</b>	359 x 254 x 21.7 mm
<b>Weight (W/ Battery)</b>	1.86 kg
<b>Chassis Color</b>	Black
<b>Warranty</b>	2 years limited warranty
<b>Xbox Game Pass</b>	One month of PC Game Pass *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.