Raider GE78 HX 13V

Specification

CPU	13th Gen Intel® Core™ i9-13980HX processor 24 cores (8 P-cores + 16 E-cores), Max Turbo Frequency 5.6 GHz
Operating Systems	Windows 11 Home (MSI recommends Windows 11 Pro for business.)
Display	17" QHD+(2560x1600), 240Hz Refresh Rate, IPS-Level, 100% DCI-P3(Typical)
Chipset	Intel® HM770
Discrete Graphics	NVIDIA® GeForce RTX™ 4090 Laptop GPU Up to 2040MHz Boost Clock 175W Maximum Graphics Power with Dynamic Boost. *May vary by scenario *Full-Power GPU Design
Video Memory	16GB GDDR6
CPU and GPU Combined Power	Max. 250W CPU-GPU Power with MSI OverBoost Technology. *OverBoost Ultra Technology for i9-13980HX Only. *May vary by scenario
Memory	16GB*2, Up to DDR5-5600 *Vary by CPU and Memory combination
Memory Slot and Max Capacity	2 Slots, Max 64GB
Storage	2TB*1 NVMe SSD PCIe Gen4
Storage Slot	1x M.2 SSD slot (NVMe PCIe Gen4), 1x M.2 SSD slot (NVMe PCIe Gen5) Compatible
Keyboard	Per-Key RGB Keyboard by SteelSeries
WebCam	IR FHD type (30fps@1080p)
Audio	2x 2W Audio Speaker 4x 2W Audio Woofer Sound by Dynaudio, Nahimic 3 Audio Enhancer, Hi-Res Audio Ready
Audio Port	1x Mic-in/Headphone-out Combo Jack
USB Ports	1x Type-C (USB3.2 Gen2/ DP) 1x Type-C (USB/ DP/ Thunderbolt™ 4) 1x Type-C (USB3.2 Gen2 / DP) 1x Type-C (USB / DP / Thunderbolt™ 4) 1x Type-C (USB3.2 Gen2 / DP) with PD charging 1x Type-A USB3.2 Gen1 1x Type-A USB3.2 Gen2 1x Type-C (USB3.2 Gen2 / DisplayPort™)
Video Ports	1x HDMI™ 2.1 (8K @ 60Hz / 4K @ 120Hz)
Card Reader	1x SD Express
LAN	Intel® Killer™ Ethernet E3100 2.5 Gbps
Wi-Fi/ Bluetooth	Intel® Killer™ Wi-Fi 6E AX1690, Bluetooth v5.3
Security	Firmware Trusted Platform Module(fTPM) 2.0, Webcam Shutter
AC Adapter	330W Adaptor
Battery	4-Cell 99.9 Whrs
Dimension (WXDXH)	380 x 298 x 23 mm
Weight (W/ Battery)	3.1 kg
Chassis Color	Black
Certification	Meta Ready
Warranty	2 years limited warranty
Xbox Game Pass	One month of PC Game Pass *Spec may vary by model. Please refer to the final spec of the product purchased for Xbox Game Pass pre-installed details.