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Processor Manufacturer

Intel®

Processor Type

Core™ i7

Processor Model

i7-14650HX

Processor Speed

2.20 GHz

Processor Core

Hexadeca-core (16 Core™)

Processor Generation

14th Gen

Processor Threads

24

Display & Graphics

Graphics Controller Manufacturer

NVIDIA®

Graphics Controller Model

GeForce RTX™ 4050

Graphics Memory Capacity

6 GB

Graphics Memory Technology

GDDR6

Graphics Memory Accessibility

Dedicated

GPU Boost Clock

Up to 2155 MHz

Maximum Graphics Power

Up to 85 W

Screen Size

40.6 cm (16")

Display Screen Type

LCD

Display Screen Technology

ComfyView (Matte)

In-plane Switching (IPS) Technology

Touchscreen

No

Screen Resolution

1920 x 1200

Standard Refresh Rate

165 Hz

Aspect Ratio

16:10

Memory

Total Installed System Memory

16 GB

System Memory Technology

DDR5 SDRAM

PCI Express NVMe 4.0	
SSD Form Factor M.2	
Network & Communication	
Wireless LAN Standard IEEE 802.11ax	
Ethernet Technology Gigabit Ethernet	
Bluetooth Standard Bluetooth 5.1 or above	
Built-in Devices	
Microphone Yes	
Finger Print Reader No	
Number of Speakers 2	
Interfaces/Ports	
HDMI Yes	
Number of HDMI Outputs 1	
Number of USB 3.2 Gen 1 Type-A Ports	
Number of USB 3.2 Gen 2 Type-A Ports	
Number of USB 3.2 Gen 2 Type-C Ports	
Total Number of USB Ports 3	
Network (RJ-45) Yes	
Input Devices	
Pointing Device Type TouchPad	
Keyboard Yes	
Keyboard Backlight Yes	
TouchPad Features Microsoft Precision Touchpad Certification	
Keyboard Features Amber Backlight NitroSense Caps Lock Indicator Microphone Mute Indicator	
Battery Information	
Battery Chemistry Lithium Polymer (Li-Polymer)	
Maximum Battery Run Time 5 Hours	

135 W

Supervisor Kensington lock slot

Physical Characteristics

Height
25.46 mm

Width
361.2 mm

Depth
278.4 mm

Weight (Approximate)
2.50 kg

Product Color
Black

Miscellaneous

Additional Information
OS Details: UEFI

Security Features
BIOS Passwords:
User



MSFT Pluton Security Processor as Firmware TPM solution

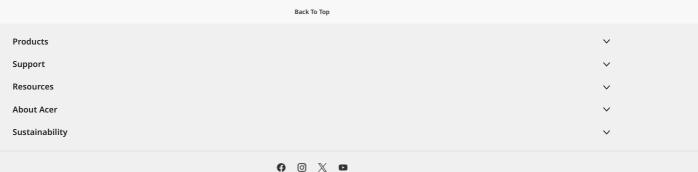
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 $NVIDIA\ GPU\ Boost: \underline{https://www.nvidia.com/en-us/geforce/technologies/gpu-boost/technology/Linear-linea$

Battery life may vary depending on model and configuration. Actual battery life varies by model, configuration (including storage capacity, RAM capacity, processor in use, display type and resolution, etc.), applications, power management settings, operating conditions, and utilized features.

Maximum Graphics Power is the highest GPU subsystem power supported in any mode, including Dynamic Boost 2.0 power transfer. The data listed is in accordance with NVIDIA guidelines and differs per system and GPU.

Specifications may vary depending on model and/or region.



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