

Processor

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

Storage

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

1

Number of USB 3.2 Gen 2 Type-A Ports

1

Number of USB 3.2 Gen 2 Type-C Ports

1

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

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
Supervisor
Kensington lock slot
MSFT Pluton Security Processor as Firmware TPM solution



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NVIDIA GPU Boost: <https://www.nvidia.com/en-us/geforce/technologies/gpu-boost/technology/>

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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