



HP OMEN Transcend 14-fb1002na Intel Core Ultra 7 255H Laptop 35.6 cm (14") 3K 16 GB LPDDR5-SDRAM 1 TB SSD NVIDIA® GeForce RTX™ 5050 Wi-Fi 7 (802.11be) Windows 11 Home AI PC White

Brand : HP

Product family: OMEN
Transcend

Product code: C53N0EA

Product name : OMEN
Transcend 14-fb1002na



- Intel Core Ultra 7 255H (up to 5.1 GHz with Intel Turbo Boost Technology, 24 MB L3 cache, 16 cores, 16 threads)
 - Windows 11 Home
 - 35.6 cm (14") diagonal 3K OLED display
 - NVIDIA GeForce RTX 5050 Laptop GPU (8 GB GDDR7 dedicated)
 - 16 GB LPDDR5-7467 MT/s (onboard), 1 TB PCIe Gen4 NVMe M.2 SSD
- OMEN Transcend Laptop 14-fb1002na, Windows 11 Home, 14", Intel Core Ultra 7, 16GB RAM, 1TB SSD, NVIDIA GeForce RTX 5050, 3K, Ceramic white

HP OMEN Transcend 14-fb1002na Intel Core Ultra 7 255H Laptop 35.6 cm (14") 3K 16 GB LPDDR5-SDRAM 1 TB SSD NVIDIA® GeForce RTX™ 5050 Wi-Fi 7 (802.11be) Windows 11 Home AI PC White:

Built to Game, Made to Create

Experience a blend of premium design and high performance with our ultra-thin, lightweight all-metal device. Enjoy long-lasting battery life, USB Type-C fast charge, and up to an Intel Core Ultra processor, NVIDIA GeForce RTX 50 Series graphics, and 3K 120Hz OLED display. Ideal for all computing needs, including gaming.

Design		Network	
Colour name	Ceramic white	Wi-Fi	✓
Product type *	Laptop	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Product colour *	White	Wi-Fi standards	Wi-Fi 7 (802.11be)
Form factor *	Clamshell	Mobile network connection *	✗
Market positioning	Gaming	Antenna type	2x2
Introduction year	2025	WLAN controller model	Intel Wi-Fi 7 BE200
Country of origin	China	WLAN controller manufacturer	Intel
Original brand name	HP	Bluetooth	✓
Display		Bluetooth version	5.4
Display diagonal *	35.6 cm (14")	Ports & interfaces	
Display resolution *	2880 x 1800 pixels	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Touchscreen *	✗	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
HD type	3K	USB4 Gen 3x2 ports quantity	1
Panel type	OLED	HDMI ports quantity *	1
Display technology marketing name	UWVA	HDMI version	2.1
LED backlight	✓	Thunderbolt 4 ports quantity	1
Native aspect ratio	16:10	Intel® Thunderbolt 4	✓
Display glass type	Edge to Edge Glass	Microphone in	✓
Display bezel technology	Micro-Edge	Combo headphone/mic port	✓
Display brightness	400 cd/m²	USB Type-C DisplayPort Alternate Mode	✓
Display diagonal (metric)	35.6 cm	USB Sleep-and-Charge	✓
RGB colour space	DCI-P3	USB Sleep-and-Charge ports	1
Colour gamut	100%	Performance	
Display response rise/fall	0.2 ms	Motherboard chipset	Intel SoC
Maximum refresh rate	120 Hz	Temperature sensor	✓
High Dynamic Range (HDR) supported	✓		
High Dynamic Range (HDR) technology	High Dynamic Range (HDR) 500, High Dynamic Range (HDR) 1500		
DCI-P3 coverage	100%		

Processor		Keyboard	
Processor manufacturer *	Intel	Pointing device	Touchpad
Processor family *	Intel Core Ultra 7	Numeric keypad *	✗
Processor generation	Intel Core Ultra (Series 2)	Keyboard backlit	✓
Processor model *	255H	Keyboard backlit colour	RGB
Processor cores	20	Keyboard backlit zone	4-zone RGB
Processor threads	20	Full-size keyboard	✓
Processor boost frequency	5.2 GHz	Keyboard colour name	Ceramic white
Performance cores	6	Software	
Efficient cores	8	Pre-installed software	Otter.ai, 1 month trial for new Microsoft 365 customers, McAfee Online Protection 30-day trial; 1-month Adobe free trial offer; PC Game Pass 3-month trial
Low Power Efficient-cores	2		
Performance-core Max Turbo Frequency	5.1 GHz		
Efficient-core Max Turbo Frequency	4.4 GHz	Trial software	100 GB Dropbox storage for 3 months
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Operating system installed *	Windows 11 Home
Performance-core base frequency	2 GHz	Processor special features	
Efficient-core base frequency	1.5 GHz	Intel® Turbo Boost Technology	✓
Low Power Efficient-core Base Frequency	700 MHz	Brand-specific features	
Processor cache	30 MB	HP Audio Boost	✓
Processor cache type	L3	HP speaker type	HP Dual Speakers
Processor base power	28 W	HP Imagepad	✓
Maximum turbo power	115 W	HP front camera	HP TrueVision FHD IR
Neural processor unit (NPU)		HP Security tools	Trusted Platform Module (Firmware TPM) support
Neural processor unit (NPU)	Intel AI Boost	HP Software provided	HP Support Assistant; HP Connection Optimizer; OMEN Gaming Hub
Sparsity support	✓		
Windows Studio effects support	✓		
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	HP Artificial Intelligence	AI PC
Total processor performance up to	96 TOPs	HP segment	Home
NPU performance up to	13 TOPs	HP GTIN (EAN/UPC)	199485846835
GPU performance up to	74 TOPs	Battery	
Memory		Battery technology	Lithium Polymer (LiPo)
Internal memory *	16 GB	Number of battery cells	6
Internal memory type	LPDDR5-SDRAM	Battery capacity *	71 Wh
Memory clock speed	7467 MHz	Fast charging	✓
Memory form factor	On-board	Fast charging time (50%)	30 min
Memory layout (slots x size)	Not available	Power	
Maximum internal memory *	16 GB	AC adapter power	140 W
Non-ECC	✓	AC adapter frequency	50 - 60 Hz
Storage		AC adapter input voltage	100 - 240 V
Total storage capacity *	1 TB	USB Type-C charging port *	✓
Storage media *	SSD	USB Power Delivery (USB PD)	✓
Total SSDs capacity	1 TB	Security	
Number of SSDs installed	1	Trusted Platform Module (TPM)	✓
SSD capacity	1 TB	Password protection	✓
SSD interface	PCI Express 4.0	Password protection type	BIOS, Power on
NVMe	✓	Sustainability	
SSD form factor	M.2	Sustainability compliance	✓
Optical drive type *	✗	Sustainability certificates	ENERGY STAR, EPEAT, EPEAT Gold
Graphics		Sustainable technologies and materials	Ocean-bound plastic in speaker enclosure(s) and bezel; Recycled metal in cover, keyboard frame, base and hinge cap(s); Keyboard keycaps and scissors contain post-consumer recycled plastic
Discrete GPU manufacturer	NVIDIA		
Discrete graphics card model *	NVIDIA® GeForce RTX™ 5050		
Discrete graphics card memory	8 GB		
Discrete graphics memory type	GDDR7		
On-board graphics card *	✓		
On-board GPU manufacturer	Intel		
Discrete graphics card *	✓	Weight & dimensions	
On-board graphics card family	Intel Arc Graphics	Width	313 mm

Graphics		Weight & dimensions	
On-board graphics card model *	Intel Arc 140T	Depth	233.5 mm
Audio		Height (front)	1.69 cm
Audio system	DTS:X Ultra	Height (rear)	1.79 cm
Built-in speaker(s)	✓	Weight *	1.63 kg
Number of built-in speakers	2	Packaging data	
Built-in microphone	✓	Package width	80 mm
Number of microphones	2	Package depth	380 mm
Camera		Package height	280 mm
Front camera	✓	Package weight	3.82 kg
Front camera resolution	1920 x 1080 pixels	Carbon footprint	
Front camera HD type	Full HD	Total carbon footprint (kg of CO2e)	260.851
Infrared (IR) camera	✓	Carbon emissions, manufacturing (kg of CO2e)	234.543
		Carbon emissions, logistics (kg of CO2e)	5.441
		Carbon emissions, end-of-life (kg of CO2e)	0.703
		Total carbon emissions, w/o use phase (kg of CO2e)	20.164
Packaging content			
AC adapter included *		✓	
Keyboard included		✓	
Technical details			
General Product Safety Regulation (GPSR) URL		https://support.hp.com/us-en/document/ish_6126692-6126777-16?openCLC=true ; HP REG 23010, 08028 Barcelona, Spain ; reg@hp.com	
Other features			
UNSPSC-code		43211503	
Supplied AC adapter type		Sandblasted anodized finish	
		1 year (1/1/0) limited warranty includes 1 year of parts and labor.	
Manufacturer warranty		No on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.	



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