



DELL 16 Premium DA16250 Intel Core Ultra 7 255H Laptop 41.4 cm (16.3") WUXGA 16 GB LPDDR5x-SDRAM SSD NVIDIA® GeForce RTX™ 5050 Wi-Fi 7 (802.11be) Windows 11 Pro English Platinum

Brand : DELL

Product family: 16 Premium

Product code:
DA16250_ARLH_003

Product name : DA16250

DELL 16 Premium DA16250. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 7, Processor model: 255H. Display diagonal: 41.4 cm (16.3"), HD type: WUXGA, Display resolution: 1920 x 1200 pixels. Internal memory: 16 GB, Internal memory type: LPDDR5x-SDRAM. Storage media: SSD. On-board graphics card model: Intel Arc 140T, Discrete graphics card model: NVIDIA® GeForce RTX™ 5050. Operating system installed: Windows 11 Pro. Product colour: Platinum. Weight: 2.29 kg



Design		Camera	
Product type *	Laptop	Front camera resolution (numeric)	2.07 MP
Product colour *	Platinum	Front camera resolution	1920 x 1080 pixels
Form factor *	Clamshell	Front camera HD type	Full HD
Display		Video capturing speed	30 fps
Display diagonal *	41.4 cm (16.3")	Infrared (IR) camera	✓
Display resolution *	1920 x 1200 pixels	Network	
Touchscreen *	✗	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
HD type	WUXGA	Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax), Wi-Fi 7 (802.11be)
Panel type	WVA	Mobile network connection *	✗
Native aspect ratio	16:10	Wi-Fi band	Tri-band (2.4 GHz / 5 GHz / 6 GHz)
Anti-glare screen	✓	Wi-Fi data rate (max)	5800 Mbit/s
Display bezel technology	InfinityEdge	Antenna type	2x2
Display brightness	500 cd/m²	WLAN controller model	Intel Wi-Fi 7 BE201
Pixel density	139 ppi	WLAN controller manufacturer	Intel
Colour gamut	100%	Ethernet LAN	✗
Low Blue Light technology	✓	Bluetooth	✓
Display response rise/fall	35 ms	Ports & interfaces	
Maximum refresh rate	120 Hz	Thunderbolt 4 ports quantity	3
Contrast ratio (typical)	2000:1	Intel® Thunderbolt 4	✓
Processor		Combo headphone/mic port	✓
Processor manufacturer *	Intel	USB Type-C DisplayPort Alternate Mode	✓
Processor family *	Intel Core Ultra 7	Performance	
Processor generation	Intel Core Ultra (Series 2)	Motherboard chipset	Intel SoC
Processor model *	255H	Ambient light sensor	✓
Processor cores	16	Keyboard	
Processor threads	16	Pointing device	Touchpad
Processor boost frequency	5.1 GHz	Numeric keypad *	✗
Performance cores	6	Keyboard backlit	✓
Efficient cores	8		
Low Power Efficient-cores	2		
Performance-core Max Turbo Frequency	5.1 GHz		

Processor		Keyboard	
Efficient-core Max Turbo Frequency	4.4 GHz	Keyboard language	English
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Software	
Performance-core base frequency	2 GHz	Operating system architecture	64-bit
Efficient-core base frequency	1.5 GHz	Trial software	McAfee Business Protection 1-year, Activate Your Microsoft 365 For A 30 Day Trial
Low Power Efficient-core Base Frequency	700 MHz	Operating system installed *	Windows 11 Pro
Processor cache	24 MB	Brand-specific features	
Processor base power	28 W	Brand specific technologies	Express Charge Boost capable
Maximum turbo power	115 W	Battery	
Neural processor unit (NPU)		Battery technology	Lithium-Ion (Li-Ion)
Neural processor unit (NPU)	Intel AI Boost	Number of battery cells	6
Sparsity support	✓	Battery capacity *	99.5 Wh
Windows Studio effects support	✓	Battery voltage	11.7 V
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Battery recharge time	2 h
Total processor performance up to	96 TOPs	Fast charging	✓
NPU performance up to	13 TOPs	Battery weight	380 g
GPU performance up to	74 TOPs	Power	
Memory		AC adapter power	130 W
Internal memory *	16 GB	AC adapter frequency	50/60 Hz
Internal memory type	LPDDR5x-SDRAM	AC adapter input voltage	100 - 240 V
Memory form factor	On-board	USB Type-C charging port *	✓
Maximum internal memory *	16 GB	USB Type-C required charging power (min) *	45 W
Memory channels	Dual-channel	USB Type-C required charging power (max) *	130 W
Memory data transfer rate	7467 MT/s	USB Power Delivery (USB PD)	✓
Storage		USB charging voltage	5,9,15,20 V
Storage media *	SSD	USB charging current	3 A
Total SSDs capacity	1 TB	Security	
Number of SSDs installed	1	Fingerprint reader	✓
SSD capacity	1 TB	Operational conditions	
SSD interface	PCI Express 4.0	Operating temperature (T-T)	0 - 35 °C
NVMe	✓	Storage temperature (T-T)	-40 - 65 °C
SSD form factor	M.2	Operating relative humidity (H-H)	10 - 90%
Optical drive type *	✗	Storage relative humidity (H-H)	0 - 95%
Card reader integrated	✓	Operating altitude	-15.2 - 3048 m
Compatible memory cards	MicroSD (TransFlash), MicroSDHC, MicroSDXC	Non-operating altitude	-15.2 - 10668 m
Graphics		Operating shock	110 G
Discrete GPU manufacturer	NVIDIA	Non-operating shock	160 G
Discrete graphics card model *	NVIDIA® GeForce RTX™ 5050	Operating vibration	0.66 G
Discrete graphics card memory	8 GB	Non-operating vibration	1.3 G
Discrete graphics memory type	GDDR7	Weight & dimensions	
On-board graphics card *	✓	Width	358.2 mm
On-board GPU manufacturer	Intel	Depth	240.1 mm
Discrete graphics card *	✓	Height (front)	6.64 mm
On-board graphics card family	Intel Arc Graphics	Height (rear)	1.87 cm
On-board graphics card model *	Intel Arc 140T	Weight *	2.29 kg
Audio		Carbon footprint	
Audio chip	Cirrus Logic CS42L43	Total carbon footprint (kg of CO2e)	364
Audio system	MaxxAudio Pro	Total carbon emissions, standard deviation (kg of CO2e)	66
Number of built-in speakers	4	Carbon emissions, manufacturing (kg of CO2e)	294.112
Speakers manufacturer	Waves	Carbon emissions, logistics (kg of CO2e)	18.564
Built-in microphone	✓	Carbon emissions, energy usage (kg of CO2e)	49.14
Camera			
Front camera	✓		

Carbon footprint

Carbon emissions, end-of-life (kg of CO2e)	2.18
PAIA version	PAIA 1.4.7, 2025

Packaging content

AC adapter included *	✓
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