

## Alienware AC16251 Intel Core Ultra 7 255HX Laptop 40.6 cm (16") WQXGA 32 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 5060 Wi-Fi 7 (802.11be) Windows 11 Home UK English Indigo

**Brand :** Alienware

**Product code:** P1CHK

**Product name :** AC16251



- Windows 11 Home 64-bit
  - Intel Core Ultra 7 255HX (30MB Cache)
  - 40.6 cm (16") WQXGA 2560 x 1600 WVA, NVIDIA GeForce RTX 5060 (8GB GDDR7)
  - 32GB DDR5-SDRAM (2 x 16) & 1000GB SSD
- Intel Core Ultra 7 255HX (30MB Cache), 32GB DDR5-SDRAM, 1000GB SSD, 40.6 cm (16") WQXGA 2560 x 1600 WVA, Intel Graphics, NVIDIA GeForce RTX 5060 (8GB GDDR7), LAN, WLAN, Webcam, Windows 11 Home 64-bit

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### Essential power. No distractions.

Must-have gaming performance in a stunning, streamlined design featuring Intel® Core™ Ultra processors, a WQXGA 240Hz 500 nits display and a stylish anodised aluminium lid and bottom cover.

Design		Audio	
Product type *	Laptop	Speaker power	2.5 W
Product colour *	Indigo	Built-in microphone	✓
Form factor *	Clamshell	Number of microphones	2
Market positioning	Gaming	Camera	
Display		Front camera	✓
Display diagonal *	40.6 cm (16")	Front camera resolution (numeric)	2.07 MP
Display resolution *	2560 x 1600 pixels	Front camera resolution	1920 x 1080 pixels
Touchscreen *	✗	Front camera HD type	Full HD
HD type	WQXGA	Video capturing speed	30 fps
Panel type	WVA	Infrared (IR) camera	✓
Display technology marketing name	ComfortView Plus	Network	
Native aspect ratio	16:10	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Anti-glare screen	✓	Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6E (802.11ax), Wi-Fi 7 (802.11be)
Display brightness	500 cd/m <sup>2</sup>	Mobile network connection *	✗
Pixel density	189 ppi	Wi-Fi band	Tri-band (2.4 GHz / 5 GHz / 6 GHz)
RGB colour space	DCI-P3	Antenna type	2x2
Colour gamut	100%	WLAN controller model	MediaTek MT7925
Low Blue Light technology	✓	WLAN controller manufacturer	MediaTek
Maximum refresh rate	240 Hz	Ethernet LAN	✓
Contrast ratio (typical)	1000:1	Ethernet LAN data rates	10,100,1000 Mbit/s
Processor		Bluetooth	✓
Processor manufacturer *	Intel	MIMO	✓
Processor family *	Intel Core Ultra 7	MIMO type	Multi User MIMO
Processor generation	Intel Core Ultra (Series 2)	Ports & interfaces	
Processor model *	255HX	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Processor cores	20	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Processor threads	20	Ethernet LAN (RJ-45) ports	1
Processor boost frequency	5.2 GHz		
Performance cores	8		
Efficient cores	12		

<b>Processor</b>		<b>Ports &amp; interfaces</b>	
Performance-core Max Turbo Frequency	5.2 GHz	HDMI ports quantity *	1
Efficient-core Max Turbo Frequency	4.5 GHz	HDMI version	2.1
Performance-core base frequency	2.4 GHz	Thunderbolt 4 ports quantity	1
Efficient-core base frequency	1.8 GHz	Intel® Thunderbolt 4	✓
Processor cache	30 MB	Combo headphone/mic port	✓
Processor base power	55 W	USB Type-C DisplayPort Alternate Mode	✓
Maximum turbo power	160 W		
<b>Neural processor unit (NPU)</b>		<b>Keyboard</b>	
Neural processor unit (NPU)	Intel AI Boost	Pointing device	Touchpad
Sparsity support	✓	Numeric keypad *	✓
Windows Studio effects support	✓	Keyboard backlit	✓
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Keyboard backlit colour	RGB
Total processor performance up to	33 TOPs	Keyboard backlit zone	1-zone RGB
NPU performance up to	13 TOPs	Keyboard language	UK English
GPU performance up to	8 TOPs		
<b>Memory</b>		<b>Software</b>	
Internal memory *	32 GB	Operating system architecture	64-bit
Internal memory type	DDR5-SDRAM	Trial software	McAfee + Premium 1-year, Activate Your Microsoft 365 For A 30 Day Trial
Memory form factor	SO-DIMM	Operating system installed *	Windows 11 Home
Memory layout (slots x size)	2 x 16 GB		
Memory slots	2x SO-DIMM		
Maximum internal memory *	64 GB		
Memory data transfer rate	5600 MT/s		
Non-ECC	✓		
<b>Storage</b>		<b>Brand-specific features</b>	
Total storage capacity *	1 TB	Brand specific technologies	Express Charge Boost capable
Storage media *	SSD		
Total SSDs capacity	1 TB		
Number of SSDs installed	1		
SSD capacity	1 TB		
SSD interface	PCI Express 4.0		
NVMe	✓		
SSD form factor	M.2		
Optical drive type *	✗		
<b>Graphics</b>		<b>Battery</b>	
Discrete GPU manufacturer	NVIDIA	Battery technology	Lithium-Ion (Li-Ion)
Discrete graphics card model *	NVIDIA GeForce RTX 5060	Number of battery cells	6
Discrete graphics card memory	8 GB	Battery capacity *	96 Wh
Discrete graphics memory type	GDDR7	Battery voltage	11.7 V
On-board graphics card *	✓	Battery recharge time	3 h
On-board GPU manufacturer	Intel	Fast charging	✓
Discrete graphics card *	✓	Battery charge indicator	✓
On-board graphics card family	Intel® Graphics	Battery weight	351 g
On-board graphics card model *	Intel® Graphics		
NVIDIA G-SYNC	✓		
<b>Audio</b>		<b>Power</b>	
Audio chip	Realtek ALC3204	AC adapter power	180 W
Audio system	High Definition Audio	AC adapter frequency	50 - 60 Hz
Number of built-in speakers	2	AC adapter input voltage	100 - 240 V
		AC adapter output voltage	19.5 V
		DC-in jack	✓
		USB Type-C charging port *	✓
		USB Type-C required charging power (min) *	90 W
		USB Type-C required charging power (max) *	100 W
		USB Power Delivery (USB PD)	✓
		<b>Operational conditions</b>	
		Operating temperature (T-T)	0 - 35 °C
		Storage temperature (T-T)	-40 - 65 °C
		Operating relative humidity (H-H)	10 - 90%
		Storage relative humidity (H-H)	5 - 95%
		Operating altitude	-15.2 - 3048 m
		Non-operating altitude	-15.2 - 10668 m
		Operating shock	140 G
		Operating vibration	0.66 G
		<b>Weight &amp; dimensions</b>	
		Width	357 mm
		Depth	265.4 mm
		Height (front)	1.92 cm
		Height (rear)	1.63 cm

**Weight & dimensions**

Weight \* 2.66 kg

**Packaging content**

AC adapter included \* 



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### Catalog Object Cloud



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