

ASUS ExpertBook B5 B5604CMA-QW0056X Intel Core Ultra 7 155U Laptop 40.6 cm (16") WUXGA 16 GB DDR5-SDRAM 512 GB SSD Wi-Fi 6E (802.11ax) Windows 11 Pro German Black



Brand : ASUS

Product family: ExpertBook

Product code: 90NX0751-M00220

Product name : B5604CMA-QW0056X

- Windows 11 Pro 64-bit
- Intel Core Ultra 7 155U (12MB Cache)
- 40.6 cm (16") WUXGA 1920 x 1200 IPS
- 16GB DDR5-SDRAM & 512GB SSD

Intel Core Ultra 7 155U (12MB Cache), 16GB DDR5-SDRAM, 512GB SSD, 40.6 cm (16") WUXGA 1920 x 1200 IPS, Intel Graphics, LAN, WLAN, Webcam, Windows 11 Pro 64-bit



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Business excellence, anywhere you work

ASUS ExpertBook B5 is the perfect on-the-go companion for forward-thinking professionals. It's an ultralight, AI-ready marvel that combines the latest Intel® Core™ Ultra processor with Intel vPro® and discrete NVIDIA® graphics¹, ushering in a new era of productivity — plus a taller 16:10 touchscreen² for deeper immersion. With AI-powered features like an intelligent camera and noise cancelation plus seamless WiFi 7³ and 4G connectivity⁴, everyday business is smarter, faster and smoother. ExpertBook B5 equips you for effective, enjoyable work — everywhere you go.

Design		Audio	
Colour name	Star Black	Audio system	Dolby Atmos
Product type *	Laptop	Built-in microphone	✓
Product colour *	Black	Camera	
Form factor *	Clamshell	Front camera	✓
Market positioning	Work	Front camera resolution	1920 x 1080 pixels
Display		Front camera HD type	Full HD
Display diagonal *	40.6 cm (16")	Privacy camera	✓
Display resolution *	1920 x 1200 pixels	Privacy type	Privacy shutter
Touchscreen *	✗	Network	
HD type	WUXGA	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Panel type	IPS	Wi-Fi standards	Wi-Fi 6E (802.11ax)
LED backlight	✓	Mobile network connection *	✗
Native aspect ratio	16:10	Antenna type	2x2
Anti-glare screen	✓	Ethernet LAN	✓
Display brightness	400 cd/m²	Ethernet LAN data rates	10,100,1000 Mbit/s
Display diagonal (metric)	40.6 cm	Bluetooth	✓
RGB colour space	sRGB	Bluetooth version	5.3
Colour gamut	100%	Ports & interfaces	
Processor		USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Processor manufacturer *	Intel	Ethernet LAN (RJ-45) ports	1
Processor family *	Intel Core Ultra 7	HDMI ports quantity *	1
Processor generation	Intel® Core™ Ultra (Series 1)	HDMI version	2.1
Processor model *	155U	Thunderbolt 4 ports quantity	2
Processor cores	12	Intel® Thunderbolt 4	✓
Processor threads	14	Combo headphone/mic port	✓
Processor boost frequency	4.8 GHz	USB Type-C DisplayPort Alternate Mode	✓
Performance cores	2		
Efficient cores	8		
Low Power Efficient-cores	2		

Processor		Performance	
Performance-core Max Turbo Frequency	4.8 GHz	Repairability index	8.4
Efficient-core Max Turbo Frequency	3.8 GHz	Keyboard	
Low Power Efficient-core Max Turbo Frequency	2.1 GHz	Pointing device	Touchpad
Performance-core base frequency	1.7 GHz	Numeric keypad *	✓
Efficient-core base frequency	1.2 GHz	Keyboard backlit	✓
Low Power Efficient-core Base Frequency	700 MHz	Keyboard language	German
Processor cache	12 MB	Software	
Processor cache type	Smart Cache	Operating system architecture	64-bit
Processor base power	15 W	Trial software	Microsoft 365 (30-day trial)
Maximum turbo power	57 W	Operating system installed *	Windows 11 Pro
Neural processor unit (NPU)		Battery	
Neural processor unit (NPU)	Intel AI Boost	Battery technology	Lithium-Ion (Li-Ion)
Maximum frequency NPU	1.4 GHz	Number of battery cells	3
Sparsity support	✓	Battery capacity *	63 Wh
Windows Studio effects support	✓	Power	
AI datatype support on NPU	FP16, FP32, Int8	AC adapter power	65 W
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML	AC adapter frequency	50 - 60 Hz
Memory		AC adapter input voltage	100 - 240 V
Internal memory *	16 GB	AC adapter output current	3.25 A
Internal memory type	DDR5-SDRAM	AC adapter output voltage	20 V
Memory form factor	SO-DIMM	USB Type-C charging port *	✓
Memory layout (slots x size)	1 x 16 GB	USB Power Delivery (USB PD)	✓
Memory slots	2x SO-DIMM	Security	
Maximum internal memory *	64 GB	Cable lock slot	✓
Storage		Cable lock slot type	Kensington
Total storage capacity *	512 GB	Fingerprint reader	✓
Storage media *	SSD	Smart card reader	✓
Total SSDs capacity	512 GB	Trusted Platform Module (TPM)	✓
Number of SSDs installed	1	Trusted Platform Module (TPM) version	2.0
SSD capacity	512 GB	Password protection	✓
SSD interface	PCI Express 4.0	Password protection type	BIOS, HDD, User
NVMe	✓	Weight & dimensions	
SSD form factor	M.2	Width	358 mm
Optical drive type *	✗	Depth	254.3 mm
Graphics		Height (front)	1.89 cm
Discrete graphics card model *	Not available	Height (rear)	2.29 cm
On-board graphics card *	✓	Weight *	1.73 kg
On-board GPU manufacturer	Intel	Packaging data	
Discrete graphics card *	✗	Package width	533 mm
On-board graphics card model *	Intel® Graphics	Package depth	75 mm
		Package height	319 mm
		Package weight	1.98 kg
		Packaging content	
		AC adapter included *	✓



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Catalog Object Cloud



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