

ASUS ExpertBook P5 G2 PM5606CGA-SH0030X Copilot+ PC AMD Ryzen™ AI 5 430 Laptop 40.6 cm (16") WUXGA 16 GB DDR5-SDRAM 512 GB SSD Wi-Fi 7 (802.11be) Windows 11 Pro Grey



Brand : ASUS

Product family: ExpertBook

Product code: 90NX0AB1-M001U0

Product name : PM5606CGA-SH0030X

AMD Ryzen AI 5 430 (2GHz), 16GB DDR5-SDRAM, 512GB SSD, 16" WUXGA 1920 x 1200 OLED, AMD Radeon 840M, LAN, WLAN, Webcam, Windows 11 Pro 64-bit

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AI efficiency, vivid precision

Maximize your personal workflow with the ASUS ExpertBook P5 G2, the ultimate laptop for professionals who value performance and portability. Powered by up to AMD Ryzen™ AI 9 HX processors¹ and delivering up to 55 NPU TOPS², it accelerates your most demanding tasks with next-level AI performance, further enhanced through ASUS MyExpert³ and Microsoft Copilot+ PC⁴. Its ultra-portable design keeps you productive anywhere, while the optimized ExpertCool thermal system ensures consistent, efficient cooling. The optional OLED5 display delivers stunning color accuracy and clarity for work and creativity. Built with military-grade durability and advanced ASUS ExpertGuardian security, your device and data stay protected wherever you go.

Design		Camera	
Colour name	Misty Grey	Front camera resolution (numeric)	5 MP
Product type *	Laptop	Infrared (IR) camera	✓
Product colour *	Grey	Privacy camera	✓
Form factor *	Clamshell	Privacy type	Privacy shutter
Housing material	Aluminium	Network	
Display back cover material	Aluminium	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Market positioning	Work	Wi-Fi standards	Wi-Fi 7 (802.11be)
Introduction year	2026	Mobile network connection *	✓
Display		Antenna type	2x2
Display diagonal *	40.6 cm (16")	Ethernet LAN	✓
Display resolution *	1920 x 1200 pixels	Ethernet LAN data rates	10,100,1000 Mbit/s
Touchscreen *	✗	Bluetooth	✓
HD type	WUXGA	Bluetooth version	5.4
Panel type	OLED	Ports & interfaces	
Native aspect ratio	16:10	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Display surface	Gloss	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Display brightness	300 cd/m ²	USB4 Gen 3x2 ports quantity	1
RGB colour space	DCI-P3	Ethernet LAN (RJ-45) ports	1
Colour gamut	95%	HDMI ports quantity *	1
Maximum refresh rate	60 Hz	HDMI version	2.1
Contrast ratio (typical)	1000000:1	Combo headphone/mic port	✓
Processor		USB Type-C DisplayPort Alternate Mode	✓
Processor manufacturer *	AMD	Keyboard	
Processor family *	AMD Ryzen™ AI 5	Pointing device	Touchpad
Processor generation	AMD Ryzen AI 400 Series	Numeric keypad *	✓
Processor model *	430	Keyboard backlit	✓
Processor cores	4	Copilot key	✓
Processor threads	8		
Processor boost frequency	4.5 GHz		
Processor frequency *	2 GHz		
Processor cache type	L2 & L3		
L3 cache	8 MB		

Processor		Software	
L2 cache	4 MB	Operating system architecture	64-bit
Neural processor unit (NPU)		Microsoft Copilot	✓
Copilot+ PC	✓	Trial software	1-month trial for new Microsoft 365 customers; McAfee 1 year
Neural processor unit (NPU)	AMD Ryzen AI	Operating system installed *	Windows 11 Pro
Total processor performance up to	58 TOPs	Battery	
NPU performance up to	50 TOPs	Battery technology	Lithium-Ion (Li-Ion)
Memory		Number of battery cells	4
Internal memory *	16 GB	Battery capacity *	70 Wh
Internal memory type	DDR5-SDRAM	Power	
Memory form factor	SO-DIMM	AC adapter power	90 W
Memory layout (slots x size)	1 x 16 GB	AC adapter frequency	50 - 60 Hz
Memory slots	2x SO-DIMM	AC adapter input voltage	100 - 240 V
Maximum internal memory *	64 GB	AC adapter output current	4.5 A
Storage		AC adapter output voltage	20 V
Total storage capacity *	512 GB	USB Type-C charging port *	✓
Storage media *	SSD	USB Type-C required charging power (min) *	80 W
Total SSDs capacity	512 GB	USB Type-C required charging power (max) *	90 W
Number of SSDs installed	1	USB Power Delivery (USB PD)	✓
SSD capacity	512 GB	Security	
SSD interface	PCI Express 4.0	Cable lock slot	✓
NVMe	✓	Cable lock slot type	Kensington
SSD form factor	M.2	Fingerprint reader	✓
M.2 SSD size	2280 (22 x 80 mm)	Face recognition	✓
Optical drive type *	✗	Windows Hello	✓
Card reader integrated	✗	Trusted Platform Module (TPM)	✓
Graphics		Trusted Platform Module (TPM) version	2.0
Discrete graphics card model *	Not available	Sustainability	
On-board graphics card *	✓	Sustainability certificates	Forest Stewardship Council (FSC) Recycled
On-board GPU manufacturer	AMD	Weight & dimensions	
Discrete graphics card *	✗	Width	358.4 mm
On-board graphics card family	AMD Radeon	Depth	253.5 mm
On-board graphics card model *	AMD Radeon 840M	Height (front)	9.8 mm
Audio		Height (rear)	1.8 cm
Audio system	Dirac	Weight *	1.69 kg
Number of built-in speakers	2	Packaging content	
Built-in microphone	✓	AC adapter included *	✓
Camera			
Front camera	✓		



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Catalog Object Cloud



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