ASUS ExpertBook P5 G2 (16” AMD)



AI efficiency, vivid precision

Expertly crafted for business professionals, the ASUS ExpertBook P5 G2 combines powerful AI performance with an ultra-portable design. It’s powered by up to AMD® Ryzen™ AI 9 HX* processors delivering up to 55 NPU TOPS[1], features an optimized ExpertCool thermal design for consistent efficiency, and offers an OLED display* that delivers vivid visuals wherever you work.

AMD® Ryzen™ AI processor

Up to 55 NPU TOPS

Copilot+ PC

ASUS MyExpert[2]

OLED display*

70Wh battery*

Exceptional performance

- Up to AMD Ryzen™AI 9 HX Processor*
- Up to 55 NPU TOPS[1]
- ExpertCool thermal design for stable performance up to 45 W TDP[1]
- ASUS MyExpert[2] & AI noise-cancelling
- Microsoft Copilot AI functions
- Up to 96GB DDR5 RAM[3]
- Dual-SSD support up to 6TB storage[4]

Productivity on the go

- Portable design starting from 1.57kg[5]
- 70Wh battery* for long lasting productivity
- Comprehensive I/O ports featuring high-speed USB4 Type-C, USB-C 3.2 Gen 2, HDMI 2.1, and RJ45 LAN[6]
- Meets US military-grade (MIL-STD-810H)[7] durability standards

Brilliant visuals and refined design

- Up to 16:10 WQXGA high refresh rate (144Hz) display*
- OLED* display option for vibrant visuals
- Lightning-fast WiFi 7* connectivity for smooth workflows

Business-grade security and manageability

- Robust protection with ASUS ExpertGuardian and NIST SP 800-155–compliant BIOS
- Windows 11 Secured-core PC
- Webcam privacy shield

*Optional feature. May vary by model, specification, or region.
1. The figures are based on theoretical performance. Actual performance may vary in real-world situations.
2. ASUS MyExpert is exclusive to ASUS Expert series laptops, desktops, and AIO models from 2026 onward. Availability may vary by country and model. For ExpertBook P5 G2 models equipped with AMD Ryzen™ AI 300 series processors, only ASUS AI ExpertMeet features are currently supported. Features are subject to change or update without prior notice. For more information on the Cloud Plus plan, system requirements, and download instructions, please visit: https://www.asus.com/business/discover/myexpert.
3. Memory may vary according to configuration. It’s upgradable up to 48+48 GB.
4. Up to 512GB+512GB or single 1TB preconfigured, up to 4TB+2TB self-upgrade. 2280 4TB & 2230 2TB SSD will only be tested, not for shipping configuration
5. Product weight may vary according to device configuration.
6. Actual I/O port configuration may vary depending on the specific model.
7. The testing regime includes the requirements of both military-grade standards and ASUS quality tests and varies depending on device. MIL-STD-810H testing is conducted on selected ASUS products only. Note that the MIL-STD-810H testing helps to ensure the quality of ASUS products but does not indicate a particular fitness for military use. The test is performed under laboratory conditions. Any damage caused by attempts to replicate these test conditions would be considered accidental and would not be covered by the standard ASUS warranty. Additional coverage is available with ASUS Premium Care.

Warranty and Support

Up to 3-year international warranty*
Warranty policies vary by country.

Next-day on-site-service*
Enjoy next business on-site service.

MyASUS
Contact customer service, view repair status, read product guides and more.

*WARRANTY POLICIES VARY BY COUNTRY

SPECIFICATIONS

Model	PM5606CGA / 90NX0AB1-M003B0
Operating System	Windows 11 Pro
Office	1-month trial for new Microsoft 365 customers. Credit card required.
LCD cover-material	Aluminum
LCD cover-color	Misty Grey
Top case-material	Aluminum
Top case-color	Misty Grey
Bottom case-material	Aluminum
Bottom case-color	Misty Grey
Military grade	US MIL STD 810H military grade standard (24 procedures)
Panel Size	16.0-inch
Backlit	LED Backlit
Brightness	400nits
Resolution	WQXGA (2560 x 1600) 16:10
Glare	Anti-glare display
Color gamut	sRGB: 100%
View angle(H/V)	178/178
Response time(Typ/Max) (ms)	20/25
Refresh rate	144Hz
Contrast (Typ)	1500:1
Touch Panel	Non-touch screen
Screen-to-body ratio	88 %
IPS-level	Wide view
Processor	AMD Ryzen™AI 5 430 Processor 2.0GHz (8MB Cache, up to 4.5 GHz, 4 cores, 8 Threads); AMD XDNA™ NPU up to 50 TOPS

DISCLAIMER: SPECIFICATIONS VARY BETWEEN DIFFERENT REGIONS. SERVICE AND WARRANTY COVERAGE DEPEND ON COUNTRY AND TERRITORY AND MAY NOT BE AVAILABLE IN ALL MARKETS.

SPECIFICATIONS

Neural processor	AMD Ryzen™ AI over 40 TOPs
Chipset	N/A
Discrete/Share	Share
Integrated GPU	AMD Radeon™ 840M
VRAM	N/A
How to upgrade memory	Upgradable; Need to remove bottom/top case
Expansion Slot(includes used)	2x DDR5 SO-DIMM slots 1x M.2 2280 PCIe 4.0x4 1x M.2 2230 PCIe 4.0x4
DIMM Memory	16GB DDR5 SO-DIMM
Total System Memory	DDR5 16GB
Storage	512GB M.2 2280 NVMe™ PCIe® 4.0 SSD *ASUS continually improves product parts. It is recommended that you install the M.2 SSD module under professional supervision, which may void your warranty. Please contact sales for any related questions.
Front-facing camera	5.0M camera with IR function to support Windows Hello With privacy shutter
Wireless	Wi-Fi 7(802.11be) (Triple band) 2*2 + Bluetooth® 5.4 Wireless Card
NumberPad	N/A
FingerPrint	FingerPrint
Keyboard type	Backlit Chiclet Keyboard with Num-key
Keyboard language	French
I/O ports	1x USB 3.2 Gen 2 Type-C support display / power delivery 1x USB 4.0 Type-C support display / power deliver 2x USB 3.2 Gen 1 Type-A 1x HDMI™ 2.1 TMDS 1x 3.5mm Combo Audio Jack 1x RJ45 Gigabit Ethernet
Audio	Audio by Dirac Smart Amp Technology Built-in speaker Built-in array microphone
Battery	70WHrs, 4S1P, 4-cell Li-ion

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SPECIFICATIONS

AC Adapter	W/O ADAPTER & W/O POWER CORD. For optimal performance, we recommend using ASUS USB-C charger that supports USB Power Delivery (PD) with a minimum output of 90W. W/O ADAPTER & W/O POWER CORD. For optimal performance, we recommend using ASUS USB-C charger that supports USB Power Delivery (PD) with a minimum output of 90W.
Required charging power	Min: 80W Max: 90W *The indicated wattage is for demonstrating the system's support capability as required by EU regulations. For optimal system performance, please use the standard-wattage adapter or higher. Min: 80W Max: 90W *The indicated wattage is for demonstrating the system's support capability as required by EU regulations. For optimal system performance, please use the standard-wattage adapter or higher.
Dimension (WxHxD)	35.84 x 25.35 x 0.98 ~ 1.80 cm (14.11" x 9.98" x 0.39" ~ 0.71")
Starting Weight (with Battery)	1.85 kg (4.08 lbs)
Starting Weight (w/o Battery)	1.59 kg (3.51 lbs)
Security	Kensington Nano Security Slot™(6x 2.5mm) Fingerprint sensor integrated with Power Key IR webcam with Windows Hello support Trusted Platform Module (TPM) 2.0 Microsoft Secured-core PC Support Absolute Persistence 2.0 (Computrace) BIOS Integrity Measurement Support BIOS Self Recovery Microsoft Security Level 3 N/A
Antivirus	McAfee® 1 year
MyASUS feature	System diagnosis Battery health charging Fan Profile Splendid Function key lock AppDeals Link to MyASUS
MyExpert Features	ExpertMeet(Only Watermark) SafeGuard Backup(Dual SSD, additional purchase before shipment)
Built-in Apps	MyASUS

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SPECIFICATIONS

Disclaimer for Built-in Apps	Built-in Apps vary from OS SKU. *MyASUS/McAfee don't support in Clean Build/without OS/G sku/Win SE/Windows on ARM/Linux OS (ex. Endless, Kylin, Ubuntu)
Reparability Index (for Belgium)	09.7
Reparability Index (for France)	09.8
Ecolabels & Compliances	EPEAT Gold with Climate+ Energy star 9.0 FSC Recycled REACH RoHS TCO Certified
Base Warranty	1Y Pick up/ return; ZENCARE + 1Y Pick up/ return
Recommended Warranty Package Part number//Extension and/or upgrade service from base warranty	ACX10-004011NX//1Y International Extention ACX13-009600NX//1Y Extension; 3Y OnSite Service(Next Business Day)*upgrade ACX15-015110NX//1Y Extension; 3Y OnSite Service(Next Business Day); 3Y Accidental Damage Protection* *upgrade *If you would like to know the details, please contact your sales teams.
Battery warranty	Commercial NB P series Battery warranty follow system warranty.
Sustainable Material_Top cover(A part)	30% PIR recycled aluminum 35% PCR recycled plastic(cover or inner frame)
Sustainable Material_Keyboard frame (C part)	30% PIR recycled aluminum 35% PIR recycled aluminum(cover or inner frame)
Sustainable Material_Bottom cover (D part)	30% PIR recycled aluminum 35% PCR recycled plastic(cover or inner frame)
Sustainable Material_Battery	30% PCR recycled plastic
Sustainable Material_Keyboard	50% PCR recycled plastic cap 50% PIR recycled aluminum bracket
Sustainable Material_Speaker	45% PCR + 5% OBP PCR recycled plastic enclosure
Sustainable Material_Total PCR recycled plastic	29%

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