



ExpertBook B5 | B5605CCA

Smart, secure AI power for business

Expertly designed for professionals, the ASUS ExpertBook B5 empowers smarter work with Intel® Core™ Ultra processors, integrated NPU for AI-driven workloads. Equipped with dual SO-DIMM slots for up to 64 GB RAM, a 16:10 display with slim bezels, and AI-powered tools like noise cancellation and live translations, the B5 delivers unmatched productivity. Enterprise-grade security features, biometric login, and the world's leading digital product passport make it a sustainable and secure choice for modern business needs.



Intel® Core™
Ultra processor
(Series 2)



Ultralight



16:10
aspect ratio



Dual
SO-DIMM



All-day
battery life



Sustainable
design

AI productivity, unlocked performance

- Up to Intel® Core™ Ultra 7 processor (Series 2) with AI architecture*
- AI ExpertMeet and AI audio/video tools
- Starting weight 1.36kg (14") and 1.75kg (16")
- Up to 64GB DDR5 (Dual SO-DIMM)
- Up to 2TB PCIe® 4.0 SSD2
- Up to WQXGA high refresh rate (144Hz), 16:10 display
- Full I/O ports including 2 x Thunderbolt™ 4 USB-C
- Up to XX hours all-day battery life¹ (TBD by Wk11)

Commercial-grade security and manageability

- Microsoft secured-core technologies
- Biometric login with fingerprint sensor, Full HD IR camera*
- Smart card reader*
- ASUS management solutions (ASUS Control Center*, Image Maker*)

Business-level durability and service

- MIL-STD-810H 24 procedures tested
- Up to 5-year international warranty available*
- ASUS business support services

Sustainable for an incredible future

- World's leading digital product passport
- Compliant with EPEAT Gold Climate+, Energy Star 8.0, TCO 10, FSC Recycled

*OPTIONAL FEATURE, MAY VARY BY MODEL, SPECIFICATION, OR REGION.

¹ACTUAL BATTERY PERFORMANCE MAY VARY DEPENDING ON PRODUCT CONFIGURATION, USAGE, OPERATIONAL CONDITIONS AND POWER MANAGEMENT SETTINGS. BATTERY LIFE WILL DECREASE OVER THE LIFETIME OF THE BATTERY.

²CERTIFICATIONS ARE STILL UNDER PROGRESS AT TIME OF PUBLISHING THIS DOCUMENT. PLEASE CHECK WITH YOUR ASUS REPRESENTATIVE PRIOR TO SHARING ANY INFORMATION PUBLICLY.

Warranty and Support



Up to 5-year international warranty available*
Warranty policies vary by country.



Pick up & return service*
Enjoy door-to-door service including pick up, repair, and return.



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

SPECIFICATIONS

Model	B5605CCA / 90NX08F1-M000H0
Operating System	Windows 11 Pro
Office	1-month trial for new Microsoft 365 customers. Credit card required.
LCD cover-material	Aluminum
LCD cover-color	Gentle Grey
Top case-material	Aluminum
Top case-color	Gentle Grey
Bottom case-material	Aluminum
Bottom case-color	Gentle Grey
Military grade	US MIL-STD 810H military-grade standard
Panel Size	16.0-inch
Backlit	LED Backlit
Brightness	300nits
Resolution	WUXGA (1920 x 1200) 16:10
Glare	Anti-glare display
Color gamut	NTSC: 45%
View angle(H/V)	178/178
Response time(Typ/Max) (ms)	25/30
Refresh rate	60Hz
Contrast (Typ)	1000:1
Touch Panel	Non-touch screen
Screen-to-body ratio	85 %
IPS-level	Wide view
Processor	Intel® Core™ Ultra 7 Processor 255H 2.0 GHz (24MB Cache, up to 5.1 GHz, 16 cores, 16 Threads); Intel® AI Boost NPU up to 13 TOPS
Neural processor	Intel® AI Boost NPU
Chipset	N/A
Discrete/Share	Share

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SPECIFICATIONS

Integrated GPU	Intel® Arc™ Graphics (available for Intel® Core™ Ultra H 5/7/9 with dual channel memory)
VRAM	N/A
Expansion Slot (includes used)	2x DDR5 SO-DIMM slots
DIMM Memory	32GB DDR5 SO-DIMM
Total System Memory	DDR5 32GB
Storage	1TB M.2 2280 NVMe™ PCIe® 4.0 SSD SSD Housing for storage expansion
Front-facing camera	1080p FHD 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
I/O ports	2x USB 3.2 Gen 1 Type-A 2x Thunderbolt™ 4, compliant with USB4, support display / power delivery 1x HDMI 2.1 TMDS 1x 3.5mm Combo Audio Jack 1x RJ45 Gigabit Ethernet Micro SD card reader Smart card reader
Audio	Audio by Dirac
Battery	63WHrs, 3S1P, 3-cell Li-ion
AC Adapter	TYPE-C, 65W AC Adapter, Output: 20V DC, 3.25A, 65W, Input: 100~240V AC 50/60Hz universal (Adapter+power cord)
Required charging power	Min: 55W Max: 65W *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 25.39 x 1.75 ~ 1.79 cm (14.11" x 10.00" x 0.69" ~ 0.70")
Weight (with Battery)	1.78 kg (3.92 lbs)
Weight (w/o Battery)	1.55 kg (3.42 lbs)

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Security	<ul style="list-style-type: none"> Fingerprint sensor integrated with Power Key Kensington Nano Security Slot™(6x 2.5mm) BIOS Booting User Password Protection BIOS Integrity Measurement Support BIOS Self Recovery BIOS setup user password CSME BIOS Redundancy Assistance Enhanced Password Strength HDD User Password Protection and Security Intel CSME Firmware Resilience Intel® BIOS Guard Intel® Boot Guard Microsoft Security Level 2 Support Absolute Persistence 2.0 (Computrace) Trusted Platform Module (TPM) 2.0 N/A
Antivirus	N/A
MyASUS feature	<ul style="list-style-type: none"> System diagnosis Battery health charging Fan Profile Splendid Tru2Life Function key lock WiFi SmartConnect AppDeals Link to MyASUS
Built-in Apps	<ul style="list-style-type: none"> AI ExpertMeet (AI features need devices with 12GB RAM or more) MyASUS <p>Built-in Apps vary from OS SKU.</p>
Disclaimer for Built-in Apps	*MyASUS/McAfee don't support in Pure OS/without OS/G sku/Win SE/Windows on ARM/Linux OS (ex. Endless, Kylin, Ubuntu)
Reparability Index (for Belgium)	9.5
Reparability Index (for France)	9.9
Ecolabels & Compliances	<ul style="list-style-type: none"> EPEAT Gold with Climate+ Energy star 8.0 FSC Recycled REACH RoHS TCO Certified
Base Warranty	2Y Pick up/ return
Recommended Warranty Package Part number//Extension and/or upgrade service from base warranty	<p>ACX10-004011NX//1Y International Extention ACX13-00699BNX//1Y Extension; 3Y OnSite Service(Next Business Day)*upgrade</p> <p>*If you would like to know the details, please contact your sales teams.</p>
Battery warranty	Commercial NB B series Battery warranty follow system warranty, 4Y-5Y by WEP option.

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SPECIFICATIONS

Sustainable Material_Top cover(A part)	30% PCR recycled plastic(cover or inner frame) 30% PIR recycled aluminum
Sustainable Material_Keyboard frame (C part)	30% PCR recycled plastic(cover or inner frame) 30% PIR recycled aluminum
Sustainable Material_Bottom cover (D part)	30% PCR recycled plastic(cover or inner frame) 30% PIR recycled aluminum
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

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