

# 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 DD5 (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 life<sup>1</sup> (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.

<sup>1</sup>ACTUAL 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.

<sup>2</sup>CERTIFICATIONS 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  |

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

# 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<br>SSD Housing for storage expansion   |
| Front-facing camera           | 1080p FHD camera with IR function to support Windows Hello<br>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<br>2x Thunderbolt™ 4, compliant with USB4, support display / power delivery<br>1x HDMI 2.1 TMDS<br>1x 3.5mm Combo Audio Jack<br>1x RJ45 Gigabit Ethernet<br>Micro SD card reader<br>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<br>Max: 65W<br>*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  | Fingerprint sensor integrated with Power Key<br>Kensington Nano Security Slot™(6x 2.5mm)<br>BIOS Booting User Password Protection<br>BIOS Integrity Measurement Support<br>BIOS Self Recovery<br>BIOS setup user password<br>CSME BIOS Redundancy Assistance<br>Enhanced Password Strength<br>HDD User Password Protection and Security<br>Intel CSME Firmware Resilience<br>Intel® BIOS Guard<br>Intel® Boot Guard<br>Microsoft Security Level 2<br>Support Absolute Persistence 2.0 (Computrace)<br>Trusted Platform Module (TPM) 2.0<br>N/A |
| Antivirus   | N/A  |
| MyASUS feature  | System diagnosis<br>Battery health charging<br>Fan Profile<br>Splendid<br>Tru2Life<br>Function key lock<br>WiFi SmartConnect<br>AppDeals<br>Link to MyASUS   |
| Built-in Apps   | AI ExpertMeet (AI features need devices with 12GB RAM or more)<br>MyASUS   |
| Disclaimer for Built-in Apps  | Built-in Apps vary from OS SKU.<br><br>*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   | EPEAT Gold with Climate+<br>Energy star 8.0<br>FSC Recycled<br>REACH<br>RoHS<br>TCO Certified  |
| Base Warranty   | 2Y Pick up/ return   |
| Recommended Warranty Package Part number//Extension and/or upgrade service from base warranty | ACX10-004011NX//1Y International Extention<br>ACX13-00699BNX//1Y Extension; 3Y OnSite Service(Next Business Day)*upgrade<br>*If you would like to know the details, please contact your sales teams.   |
| Battery warranty  | Commercial NB B series Battery warranty follow system warranty, 4Y-5Y by WEP option.   |

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# SPECIFICATIONS

|   |   |
|---|---|
| <b>Sustainable Material_Top cover(A part)</b>       | 30% PCR recycled plastic(cover or inner frame)<br>30% PIR recycled aluminum |
| <b>Sustainable Material_Keyboard frame (C part)</b> | 30% PCR recycled plastic(cover or inner frame)<br>30% PIR recycled aluminum |
| <b>Sustainable Material_Bottom cover (D part)</b>   | 30% PCR recycled plastic(cover or inner frame)<br>30% PIR recycled aluminum |
| <b>Sustainable Material_Battery</b>                 | 30% PCR recycled plastic  |
| <b>Sustainable Material_Keyboard</b>                | 50% PCR recycled plastic cap<br>50% PIR recycled aluminum bracket           |
| <b>Sustainable Material_Speaker</b>                 | 45% PCR + 5% OBP PCR recycled plastic enclosure                             |

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