

ExpertBook B5 | B5405CCA

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.



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 15 hours all-day battery life¹

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



Intel® Core™
Ultra processor
(Series 2)



Ultralight



16:10
aspect ratio



Dual
SO-DIMM



All-day
battery life



Sustainable
design

*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 | B5405CCA / 90NX08I1-M000Z0 |
|-----------------------------|--|
| 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 | 14.0-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) | 25/30 |
| Refresh rate | 144Hz |
| Contrast (Typ) | 1200:1 |
| Touch Panel | Non-touch screen |
| Screen-to-body ratio | 84 % |
| 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

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| 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 | 16GB DDR5 SO-DIMM |
| Total System Memory | DDR5 16GB |
| Storage | 512GB 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, supports 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 |
| 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) | 31.51 x 22.68 x 1.75 ~ 1.79 cm (12.41" x 8.93" x 0.69" ~ 0.70") |
| Weight (with Battery) | 1.38 kg (3.04 lbs) |
| Weight (w/o Battery) | 1.16 kg (2.56 lbs) |

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SPECIFICATIONS

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| Security | <p>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</p> |
| Antivirus | N/A |
| MyASUS feature | <p>System diagnosis Battery health charging Fan Profile Splendid Tru2Life Function key lock WiFi SmartConnect AppDeals Link to MyASUS</p> |
| Built-in Apps | <p>MyASUS AI ExpertMeet (AI features need devices with 12GB RAM or more)</p> |
| Disclaimer for Built-in Apps | <p>Built-in Apps vary from OS SKU. *MyASUS/McAfee don't support in Pure OS/without OS/G sku/Win SE/Windows on ARM/Linux OS (ex. Endless, Kylin, Ubuntu)</p> |
| Reparability Index (for Belgium) | 9.5 |
| Reparability Index (for France) | 9.9 |
| Ecolabels & Compliances | <p>EPEAT Gold with Climate+ Energy star 8.0 FSC Recycled REACH RoHS TCO Certified</p> |
| Base Warranty | 1Y Pick up/ return; ZENCARE + 1Y Pick up/ return |
| Recommended Warranty Package Part number//Extension and/or upgrade service from base warranty | <p>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.</p> |
| Battery warranty | Commercial NB B series Battery warranty follow system warranty, 4Y-5Y by WEP option. |

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SPECIFICATIONS

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| 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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