

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	ExpertBook B5 (B5405CCA)
Operating system	Windows 11 Pro/ Home 64bit Windows 11 Pro Education 64bit Windows 11 pure OS (not for open channel) Win11 PRO 64 bits with Driver WHQL support Without OS
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 Intel® Core™ Ultra 5 Processor 225H 1.7 GHz (18MB Cache, up to 4.9 GHz, 14 cores, 16 Threads); Intel® AI Boost NPU up to 13 TOPS Intel® Core™ Ultra 7 vPro® Processor 265H 2.2 GHz (30MB Cache, up to 5.3 GHz, 16 cores, 16 Threads); Intel® AI Boost NPU up to 13 TOPS(TBD) Intel® Core™ Ultra 5 vPro® Processor 235H 2.4 GHz (18MB Cache, up to 5.0 GHz, 14 cores, 16 Threads); Intel® AI Boost NPU up to 13 TOPS(TBD)
Graphics	Intel Arc Graphics for Intel Core Ultra with 128-bit (dual channel) memory populated Intel Graphics for Intel Core Ultra with 64-bit memory populated (MTL-H CPU with single-channel memory or MTL-U CPU)
Memory	Dual SO-DIMM, 8GB/16GB/32GB DDR5x 5600 MHz, up to 32+32GB
Storage	1 x M.2 2280 SSD, up to 2 TB PCIe 4.0 SSD 256 GB/512 GB/1 TB M.2 PCIe® 4.0 Value SSD 512 GB/1 TB / 2TB M.2 PCIe® 4.0 Performance SSD 512 GB M.2 NVMe SED SSD 1 x M.2 2230 NVMe PCIe® 4.0, up to 512GB PCIE Gen4 SSD 512 GB M.2 PCIe® 4.0 Value SSD Support 512 GB (Value) + 512 GB (Value) Non-RAID/RAID 0/RAID 1
Display	14" WUXGA (1920 x 1200), Value-IPS, 16:10, wide view, anti-glare, 300 nits, 60Hz 14" WQXGA (2560 x 1600), IPS, 16:10, wide view, anti-glare, 400nits, sRGB 100%, 144Hz
I/O ports	2 x Thunderbolt™ 4 USB-C™ / 2 x USB 3.2 Gen 1 Type-A (one support BC1.2) / 1 x HDMI v2.1 1 x Combo audio jack / 1 x Kensington® nano lock slot / 1 x RJ45 1 x Micro SD / 1 x Smart card reader (optional)
Camera	FHD camera, Webcam Shield FHD+IR camera, Webcam Shield
Wireless	WLAN: Wi-Fi 6 (802.11ax) (Dual band) 2*2 + Bluetooth® 5.3 Wireless Card Wi-Fi 7 (802.11be) (Dual band) 2*2 + Bluetooth® 5.4 Wireless Card
Audio	2x Speaker with Dirac technology support 2x Array microphone Support Speech Cognition and Smart AMP ASUS AI Noise-Canceling Technology
Weight	Starting at 1.36kg (with 50W battery and 14" 400nits panel)
Dimensions (WxDxH)	315.1*226.8*17.95 mm
Battery	50Wh-3 cell, Li-Polymer / 63Wh-3 cell, Li-Polymer
Security	Kensington® Nano lock slot / Fingerprint sensor(standard configuration) Webcam Shield / TPM 2.0 (dTPM / fTPM) Smart Card Reader (optional)
Keyboard and touchpad	Full-size keyboard with 1.5 mm key travel / Backlit (optional) / spill-resistant to 78cc* *Quantity used during testing, with duration of 3 minutes
Featured software	ASUS Control Center (sold separately) / ASUS Business Manager / MyASUS
AC adapter	65W AC Adapter, USB Type-C Output: 20V DC, 3.25A, 65W / Input: 100-240V AC, 50/60Hz universal
Energy efficiency compliance	EPEAT Gold Climate+ / Energy Star 8.0 / TCO 10 / FSC Recycled / WEEE / RSTS / RoHS

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

Recommended Accessories



ASUS SimPro Dock 2



ASUS 65W USB-C
Ultra Mini Universal Adapter

Change log

March, 2025

Revise “3 – years global warranty” to
“Up to 5-year international warranty available
Warranty policies vary by country.”

Revise spill-resistant from 66cc to 78cc