ExpertBook B5 | B5604CMA

AI-ready for multitasking on the go

Expertly crafted for mobile professionals, ExpertBook B5 takes multitasking to the next level with the latest Intel® Core™ Ultra processors, Intel vPro®, and comprehensive I/O ports. Additional cutting-edge features include dual SO-DIMM slots, a 16:10 display compatible with MPP 2.0 stylus, AI-powered camera and noise-canceling, and biometric login via fingerprint sensor and IR camera for working on the go with confidence.

CPU
Intel® Core™ Ultra processor

Ultralight

16:10 aspect ratio

Dual SO-DIMM

All-day battery life

Sustainable design

Ultimate portability for mobile professionals
- Ultralight 16" business laptop from 1.65kg with a durable magnesium-aluminum and aluminum chassis
- Tested to US military-grade MIL-STD-810H standards
- Up to WiFi 7* and 4G LTE* support
- ASUS AI camera and ASUS AI audio
- Up to 15 hours all-day battery life[1]

Exceptional performance for multitasking
- Intel® Core™ Ultra 7 processor with AI-ready architecture
- Dual SO-DIMM up to 64GB DDR5
- Up to 2TB PCIe® 4.0 SSD with optional RAID 0/1 support
- Full I/O ports including 2x Thunderbolt™ 4 USB-C and HDMI
- Up to 16:10 WQXGA 500 nits touchscreen display*

Enterprise-grade security and manageability
- Intel vPro® support* and Microsoft secured core technologies
- Webcam shield, Kensington Nano Security Slot™, fingerprint sensor with power button, IR camera*, smart card reader*, TPM 2.0*
- ASUS management solutions (ASUS Control Center, ASUS Business Manager, Image Maker)

Sustainable for an incredible future[2]
- Crafted with PCR and PIR materials
- Compliant with EPEAT Gold, Energy Star 8.0, TCO 9.0, FSC Recycled
- Backed by ASUS Carbon Offset services

*OPTIONAL FEATURE, MAY VARY BY MODEL, SPECIFICATION, OR REGION.
[1]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.
[2]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	ExpertBook B5 (B5604CMA)
Operating system	Windows 11 Pro/ Home 64-bit Windows 11 Pro Education 64-bit Windows 11 Pure OS (by request) Windows 11 Pro 64-bit with Driver WHQL support Without OS
Processor	Intel® Core™ Ultra 7 processor 155U Intel® Core™ Ultra 5 processor 125U Intel® Core™ Ultra 7 processor 165H (vPro® Enterprise) Intel® Core™ Ultra 5 processor 135H (vPro® Enterprise) Intel® Core™ Ultra 7 processor 155H (vPro® Essential) Intel® Core™ Ultra 5 processor 125H (vPro® Essential) Intel® Core™ Ultra 7 processor 155H Intel® Core™ Ultra 5 processor 125H
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	2x SO-DIMM, up to 64GB DDR5 5600 MHz SO-DIMM: 8GB/16GB/32GB DDR5 5600 MHz
Storage	**With LTE configuration** 1 x M.2 2280 NVMe PCIe® 4.0 SSD up to 2TB 256GB/512GB/1TB M.2 PCIe® 4.0 Value SSD 512GB/1TB M.2 PCIe® 4.0 Performance SSD 256GB/512GB M.2 NVMe SED SSD **Without LTE configuration** 1 x M.2 2230 + 1 x M.2 2280 NVMe PCIe® 4.0 SSD up to 1TB 512GB M.2 PCIe® 4.0 Value SSD
Display	**Non-Touch** 16" WUXGA (1920 x 1200), Value-IPS,16:10, wide view, 300 nits 16" WUXGA (1920 x 1200), IPS,16:10, wide view, anti-glare, 400 nits, low power, 72% NTSC 16" WQXGA (2560x1600), IPS, 16:10, wide view, anti-glare, narrow border, 500 nits, DCI-P3 100% **Touch** 16" WUXGA (1920 x 1200), Value-IPS, 16:10, wide view, anti-glare, anti-fingerprint, 300 nits, stylus support 16" WQXGA (2560x1600),IPS, 16:10,wide view, anti-glare, anti-fingerprint, 500 nits, DCI-P3 100%, stylus support
Stylus	ASUS Pen 2.0 SA203H (optional, touchscreen only) Non-garaged stylus
I/O ports	2 x Thunderbolt™ 4 USB-C™, 2 x USB 3.2 Gen 2 Type-A (one support BC1.2), 1 x HDMI v2.1, 1 x Combo audio jack, 1 x Kensington Nano Security Slot™, 1 x RJ45, 1 x Smart card reader (optional), 1 x nano SIM (optional)
Camera	FHD camera, webcam shield FHD+IR camera, webcam shield AI camera support
Wireless	Wi-Fi 6 (802.11ax) (Dual band) 2*2 + Bluetooth® 5.2 Wireless Card Wi-Fi 6E (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 4G/LTE FM101-GL with eSIM & physical nano SIM
Audio	2 x Dolby Atmos speakers, Array microphone, ASUS AI noise-canceling technology
Weight	1.65kg (non-touch, 50Wh battery)
Dimensions (WxDxH)	358*254.27*18.95 mm
Battery	50Wh, 3-cell polymer battery / 63Wh, 3-cell polymer battery
Security	Fingerprint sensor with power button, Webcam shield, Kensington Nano Security Slot™, IR camera (optional), TPM 2.0 (optional), Smart card reader (optional)
Keyboard and touchpad	Full-size keyboard with 1.5 mm key travel, backlit (optional), spill-resistant to 66cc (quantity used during testing, with duration of 3 minutes)
NumberPad	Not available
Featured software	ASUS Control Center (optional), 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, Energy Star 8.0, TCO 9.0, FSC Recycled

Recommended Accessories

ASUS SimPro Dock 2

ASUS 65W USB-C
Ultra Mini Universal Adapter

ASUS SA203H Stylus

ASUS ExpertBook

Change log

March, 2025
Revise "3 – years global warranty" to "Up to 5-year international warranty available Warranty policies vary by country."