



ASUS Announces ExpertBook B5

Refreshed business laptop features latest AI-ready Intel Core Ultra processor and discrete graphics, empowering modern mobile professionals to multitask anywhere

KEY POINTS

- **AI-powered collaboration and productivity:** Ready for modern business professionals, with up to Intel® Core™ Ultra processor and Intel's AI architecture
- **Enterprise-grade security and manageability:** Convenient and robust multi-factor authentication, plus intuitive ASUS IT-management solutions for business
- **Expertly crafted for mobile multitasking:** Ultralight 1.29 kg metal chassis with military-grade strength, long battery life, WiFi 7 and 4G, plus latest connectivity

TAIPEI, Taiwan, December 14, 2023 — ASUS today announced the 14-inch and 16-inch ExpertBook B5 (B5404 and B5604), an ultralight, AI-ready marvel that combines the latest up to Intel® Core™ Ultra processors and discrete NVIDIA® graphics¹, ushering in a new era of productivity, plus a taller 16:10 display for deeper immersion, with optional touchscreen functionality.

With AI-powered features like an intelligent camera and noise cancelation plus and seamless WiFi 7² and 4G LTE connectivity, ExpertBook B5 ensures that everyday business is smarter, faster and smoother. Security is also paramount, with biometric login, SSD with RAID 0/1 support³ and an optional smart card reader for enterprise-grade protection. From top to bottom, inside and out, ExpertBook B5 is expertly crafted for effective, enjoyable work — making it the perfect on-the-go companion for mobile professionals to multitask confidently.

AI-powered collaboration and productivity

ExpertBook B5 has always been designed for business professionals to ensure maximum productivity in the modern office — and the new model builds on that enviable track record. Powered by the up to latest Intel Core Ultra processors and NVIDIA GeForce RTX™ 2050 discrete graphics, it provides high-performance capabilities for running resource-intensive software and handling visual workloads.

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ExpertBook B5 delivers frictionless AI experiences with the best compatibility right from the get-go, leveraging Intel's powerful AI architecture and ecosystem for intelligent performance and cutting-edge security. The resulting experience enables modern business professionals to tackle more complex workloads, enhance productivity and enjoy seamless multitasking and smoother collaboration.

The new laptop also integrates both an AI-powered camera and noise cancelation to enhance the overall user experience, ensuring uninterrupted meetings and optimized audiovisuals. Motion-tracking technology automatically keeps the user's face centered and adjusts focus, eliminating the annoyance of having to adjust the camera mid-chat. Both image quality and brightness are also enhanced automatically. Simultaneously, the two-way AI noise-canceling technology employs sophisticated machine-learning techniques to filter sound around the speaker and eliminate noise from the person at the other end of the conversation — so virtual chats feel as natural as being in the same room.

For fluid productivity with an expanded vision, the new ExpertBook B5 benefits from a slim-bezel touchscreen display with a 16:10 aspect ratio. Compatible with the ASUS Pen and other MPP 2.0 styluses, this provides busy professionals with more room to work and an easy way to create, annotate documents or jot down ideas.

Enterprise-grade security and manageability

ExpertBook B5 is made for business and equipped with multiple design features and technologies to maximize security and ease IT administration, and seamless remote-work experiences.

The inclusion of multiple log-in options, including an integrated fingerprint sensor, optional IR camera for face login and optional smart card reader provides both convenience and robust multi-factor authentication and means organizations — and especially small- to medium-sized businesses (SMBs) — can enjoy enhanced security without worrying about data breaches. ExpertBook B5 is also easy to maintain and upgrade, with dual SO-DIMM and support for up to 64 GB DDR5 RAM.

Businesses choosing ExpertBook B5 also benefit from the extensive range of management solutions on offer from ASUS. These include the ASUS Endpoint Management Service (AEMS) for driver updates, centralized management and security-management services; and the ASUS Pre-Deployment Service (APDS), which simplifies the deployment process — from device registration and image building to pre-configuration and enrolment — to make things easier and faster for IT staff, enabling them to focus on their core activities.⁴

This comprehensive approach ensures users experience heightened security and easy upgradeability, making the ExpertBook B5 an ideal choice for everyday productivity and secure work, both in the office and on the go.

Expertly crafted for mobile multitasking

ExpertBook B5 embodies mobility with an ultralight all-metal chassis that's as light as 1.29 kg⁵ and just 1.89 cm thin, so it's travel wherever business needs to happen. This sustainably-crafted design is also imbued with military-grade strength, to meet the ultra-demanding MIL-STD 810H US military standard. It also undergoes thorough in-house testing by ASUS — including panel-pressure, shock and drop tests — to ensure superior durability and reliability.⁶

The new laptop is driven by a capacious battery that keeps the productivity going throughout the working day. It also has support for fast-charging technology, so topping up the battery is satisfyingly swift. The latest WiFi 7 technology enables ultrafast wireless connections, extended range, rock-solid reliability, even in crowded areas, and wider spectrum for speedier throughput and reduced interference. There's even optional 4G LTE support for anywhere connectivity, ensuring seamless connectivity between workplaces.

ExpertBook B5 is also packed with the latest connectivity, including two Thunderbolt™ 4 USB-C™ ports, HDMI® 2.1, and an optional smart card reader. It also benefits from a physical nano-SIM card slot, plus offers support for eSIM subscriptions.

NOTES TO EDITORS

ASUS ExpertBook B5 product websites:

B5404 <https://asus.com/laptops/for-work/expertbook/expertbook-b5-b5404/>

B5604 <https://asus.com/laptops/for-work/expertbook/expertbook-b5-b5604/>

ASUS Business website: <https://www.asus.com/business/>

ASUS Business LinkedIn: <https://www.linkedin.com/showcase/asus-business/>

ASUS Pressroom: <http://press.asus.com>

ASUS Global Facebook: <https://www.facebook.com/asus>

ASUS Global Twitter: <https://www.twitter.com/asus>

SPECIFICATIONS⁷

ASUS ExpertBook B5 (B5404CMA / B5604CMA)

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|--------------------------------|--|
| <p>Processor</p> | <p>Intel® Core™ Ultra 7 processor 155U Intel® Core™ Ultra 5 processor 125U Intel® Core™ Ultra 7 processor 155H Intel® Core™ Ultra 5 processor 125H</p> |
| <p>GPU</p> | <p>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)</p> |
| <p>Operating system</p> | <p>Windows 11 Pro / Home 64-bit Windows 11 Pro Education 64-bit Windows 11 pure OS (not for open channel) Windows 11 Pro 64-bit with Driver WHQL support Without OS</p> |
| <p>Display</p> | <p>B5404CMA Non-Touch 14" WUXGA(1920 x 1200),Value-IPS, 16:10, wide view, anti-glare, 300 nits 14" WUXGA(1920 x 1200),IPS, 16:10, wide view, anti-glare, 400 nits, 72% NTSC/Low power 14" WQXGA (2560 x 1600), IPS, 16:10, wide view, anti-glare, 500 nits, 100% DCI-P3 14" WUXGA (1920 x 1200), IPS, 16:10, wide view, anti-glare, 500nits, 72% NTSC, ePrivacy</p> <p>Touchscreen 14" WUXGA (1920 x 1200), Value-IPS, 16:10, touch screen, wide view, anti-glare + anti-fingerprint, 300 nits, stylus support 14" WQXGA (2560 x 1600), IPS, 16:10, touch screen, wide view, anti-glare + anti-fingerprint, 500 nits, 100% DCI-P3, stylus support</p> <p>B5604CMA 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, 400n its, low power,72% NTSC 16" WQXGA(2560x1600), IPS, 16:10, wide view, anti-glare, narrow border, 500 nits, DCI-P3 100%</p> <p>Touchscreen 16" WUXGA(1920 x 1200), Value-IPS, 16:10, wide view, touch screen, anti-glare + anti-fingerprint, 300 nits, stylus support 16" WQXGA(2560x1600),IPS, 16:10,wide view, touch screen, anti-glare + anti-fingerprint, 500 nits, stylus support, DCI-P3 100%</p> |
| <p>Cameras</p> | <p>FHD camera, webcam shield FHD+IR camera, webcam shield support AI camera</p> |

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|------------------------------|---|
| Memory | 2 x SO-DIMM, up to 64 GB DDR5 5600 MHz SO-DIMM: 8 GB / 16 GB / 32 GB DDR5 5600 MHz |
| Storage | 1 x M.2 2280 NVMe PCIe® 4.0, 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 / 2 TB M.2 PCIe® 4.0 Performance SSD 256 GB / 512 GB M.2 NVMe SED SSD 1 x M.2 2280 NVMe PCIe® 4.0 + 1 x M.2 2230 SSD, up to 1 TB PCIe 4.0 SSD (only in wo/LTE SKU) 512 GB M.2 PCIe® 4.0 Value SSD |
| Wireless | WiFi 6 (802.11ax) (Dual band) 2*2 + Bluetooth® 5.2 Wireless Card WiFi 6E (802.11ax) (Dual band) 2*2 + Bluetooth® 5.3 Wireless Card WiFi 7 (802.11be) (Dual band) 2*2 + Bluetooth® 5.4 Wireless Card 4G / LTE FM101-GL with eSIM & physical nano SIM |
| Connectivity | 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 lock slot 1 x RJ45 1 x Smart card reader (optional) 1 x nano SIM (optional) |
| Battery | 50 Wh 3cell 63 Wh 3cell |
| Colors | Star Black |
| Size | B5404CMA 313.7 x 226.8 x 18.95 mm B5604CMA 358 x 254.27 x 18.95 mm |
| Weight | B5404CMA From 1.29 kg (non touch/Battery 50 Wh) B5604CMA From 1.65 kg (non touch/Battery 50 Wh) |
| Keyboard and touchpad | Full-size keyboard with 1.5 mm key travel; backlit (optional); spill-resistant to 66cc* <i>*Quantity used during testing, with duration of 3 minutes</i> |
| AC adapter | 65 W AC Adapter, USB-C® Output: 20 V DC, 3.25 A, 65 W / Input: 100-240 V AC, 50 / 60 Hz universal |

ASUS ExpertBook B5 (B5404CVF/B5604CVF)

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|-------------------------|---|
| Processor | Intel® Core™ i7 processor 1355U 1.7 GHz (12 MB cache, up to 5.0 GHz, 10 cores) Intel® Core™ i5 processor 1335U 1.3 GHz (12 MB cache, up to 4.6 GHz, 10 cores) |
| GPU | NVIDIA® GeForce RTX™ 2050 Laptop GPU w / 4 GB GDDR6 VRAM Support |
| Operating system | Windows 11 Pro/ Home 64-bit Windows 11 Pro Education 64-bit Windows 11 pure OS (not for open channel) Windows 11 Pro 64-bit with Driver WHQL support Without OS |
| Display | <p>B5404CVF</p> <p>Non-Touch</p> <p>14" WUXGA (1920 x 1200), Value-IPS, 16:10, wide view, anti-glare, 300 nits 14" WUXGA (1920 x 1200), IPS, 16:10, wide view, anti-glare, 400nits, 72% NTSC/Low power 14" WQXGA (2560 x 1600), IPS, 16:10, wide view, anti-glare, 500 nits, 100% DCI-P3 14" WUXGA (1920 x 1200), IPS, 16:10, wide view, anti-glare, 500nits, 72% NTSC, ePrivacy</p> <p>Touchscreen</p> <p>14" WUXGA (1920 x 1200), Value-IPS, 16:10, touch screen, wide view, anti-glare + anti-fingerprint, 300 nits, stylus support 14" WQXGA (2560 x 1600), IPS, 16:10, touch screen, wide view, anti-glare + anti-fingerprint, 500 nits, 100% DCI-P3, stylus support</p> <p>B5604CVF</p> <p>Non-Touch</p> <p>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%</p> <p>Touch</p> <p>16" WUXGA (1920 x 1200), Value-IPS, 16:10, wide view, touch screen, anti-glare + anti-fingerprint, 300 nits, stylus support 16" WQXGA (2560x1600), IPS, 16:10, wide view, touch screen, anti-glare + anti-fingerprint, 500nits, stylus support, DCI-P3 100%</p> |
| Cameras | FHD camera, webcam shield FHD+IR camera, webcam shield support AI camera |
| Memory | 2 x SO-DIMM, up to 64 GB DDR5 5200 MHz SO-DIMM: 8 GB / 16 GB / 32 GB DDR5 5200 MHz |
| Storage | 1 x M.2 2280 NVMe PCIe® 4.0 , 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 / 2 TB M.2 PCIe® 4.0 Performance SSD 256 GB / 512 GB M.2 NVMe SED SSD |
| Wireless | WiFi 6 (802.11ax) (Dual band) 2*2 + Bluetooth® 5.2 Wireless Card WiFi 6E (802.11ax) (Dual band) 2*2 + Bluetooth® 5.3 Wireless Card |

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| Connectivity | 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 lock slot 1 x RJ45 1 x Smart card reader (optional) |
| Battery | 63 Wh 3cell |
| Colors | Star Black |
| Size | B5404CVF 313.7 x 226.8 x 22.95 mm B5604CVF 358 x 254.27 x 22.95 mm |
| Weight | B5404CVF From 1.4 kg (non-touch / Battery 63 Wh) B5604CVF From 1.76 kg (non touch / Battery 63 Wh) |
| Keyboard and touchpad | Full-size keyboard with 1.5 mm key travel; backlit (optional); spill-resistant to 66cc* <i>*Quantity used during testing, with duration of 3 minutes</i> |
| AC adapter | 90 W AC Adapter, USB-C® Output: 20 V DC, 4.5 A, 90 W, Input: 100–240 V AC 50 / 60 Hz universal |

ASUS ExpertBook B5 (B5404CVA/B5604CVA)

| | |
|--------------------------------|---|
| <p>Processor</p> | <p>Intel® Core™ i7 processor 1355U 1.7 GHz (12 MB cache, up to 5.0 GHz, 10 cores) Intel® Core™ i5 processor 1335U 1.3 GHz (12 MB cache, up to 4.6 GHz, 10 cores) Intel® Core™ i7 processor 1360P 2.2 GHz (18 MB cache, up to 5.0 GHz, 12 cores) Intel® Core™ i5 processor 1340P 1.9 GHz (12 MB cache, up to 4.6 GHz, 12 cores) Intel® Core™ i5 processor 1350P 1.9 GHz (12 MB cache, up to 4.7 GHz, 12 cores) (vPro® Enterprise) Intel® Core™ i7 processor 1360P 2.2 GHz (18 MB cache, up to 5.0 GHz, 12 cores) (vPro® Essential) Intel® Core™ i5 processor 1340P 1.9 GHz (12 MB cache, up to 4.6 GHz, 12 cores) (vPro® Essential) Intel® Core™ i7 processor 1370P 2.2 GHz (24 MB cache, up to 5.2 GHz, 14 cores) (vPro® Enterprise)</p> |
| <p>GPU</p> | <p>Raptor Lake CPU: Intel® Iris® Xe Graphics for Intel® Core™ i5/i7 with 128-bit (dual channel) memory populated Intel UHD Graphics for Intel® Core™ with 64-bit memory populated Raptor Lake Refresh CPU: Intel® Graphics for Intel® Core™ with 64-bit memory populated</p> |
| <p>Operating system</p> | <p>Windows 11 Pro / Home 64-bit Windows 11 Pro Education 64-bit Windows 11 pure OS (not for open channel) Windows 11 Pro 64-bit with Driver WHQL support Without OS</p> |
| <p>Display</p> | <p>B5404CVA</p> <p>Non-Touch</p> <p>14" WUXGA (1920 x 1200), Value-IPS, 16:10, wide view, anti-glare, 300 nits 14" WUXGA (1920 x 1200), IPS, 16:10, wide view, anti-glare, 400 nits, 72% NTSC/Low power 14" WQXGA (2560 x 1600), IPS, 16:10, wide view, anti-glare, 500 nits, 100% DCI-P3 14" WUXGA (1920 x 1200), IPS, 16:10, wide view, anti-glare, 500 nits, 72% NTSC, ePrivacy</p> <p>Touchscreen</p> <p>14" WUXGA (1920 x 1200), Value-IPS, 16:10, touch screen, wide view, anti-glare + anti-fingerprint, 300 nits, stylus support 14" WQXGA (2560 x 1600), IPS, 16:10, touch screen, wide view, anti-glare + anti-fingerprint, 500 nits, 100% DCI-P3, stylus support</p> <p>B5604CVA</p> <p>Non-Touch</p> <p>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%</p> <p>Touchscreen</p> <p>16" WUXGA (1920 x 1200), Value-IPS, 16:10, wide view, touch screen, anti-glare + anti-fingerprint, 300 nits, stylus support 16" WQXGA (2560x1600), IPS, 16:10, wide view, touch screen, anti-glare + anti-fingerprint, 500 nits, stylus support, DCI-P3 100%</p> |
| <p>Cameras</p> | <p>FHD camera, webcam shield</p> |

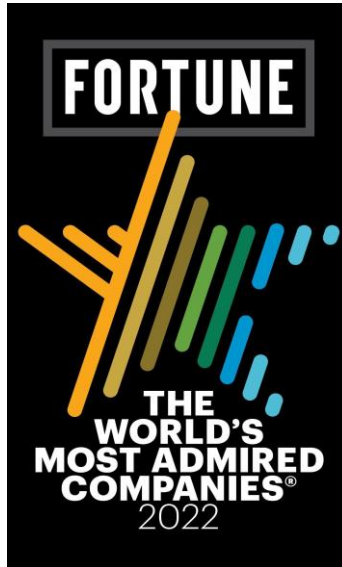
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|------------------------------|---|
| | FHD+IR camera, webcam shield support AI camera |
| Memory | 2 x SO-DIMM, up to 64 GB DDR5 5200 MHz SO-DIMM: 8 GB / 16 GB / 32 GB DDR5 5200 MHz |
| Storage | 1 x M.2 2280 NVMe PCIe® 4.0, up to 2TB PCIe® 4.0 SSD 256 GB / 512 GB / 1 TB M.2 PCIe® 4.0 Value SSD 512 GB / 1 TB / 2 TB M.2 PCIe® 4.0 Performance SSD 256 GB / 512 GB M.2 NVMe SED SSD |
| Wireless | WiFi 6 (802.11ax) (Dual band) 2*2 + Bluetooth® 5.2 Wireless Card WiFi 6E (802.11ax) (Dual band) 2*2 + Bluetooth® 5.3 Wireless Card |
| Connectivity | 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 lock slot 1 x RJ45 1 x Smart card reader(optional) |
| Battery | 50 Wh 3cell 63 Wh 3cell |
| Colors | Star Black |
| Size | B5404CVA 313.7 x 226.8 x 18.95 mm B5604CVA 358 x 254.27 x 18.95 mm |
| Weight | B5404CVA From 1.2 9kg (non-touch / Battery 50 Wh) B5604CVA From 1.65 kg (non-touch / Battery 50 Wh) |
| Keyboard and touchpad | Full-size keyboard with 1.5 mm key travel; backlit (optional); spill-resistant to 66cc* <i>*Quantity used during testing, with duration of 3 minutes</i> |
| AC adapter | 65 W AC Adapter, USB-C® Output: 20 V DC, 3.25 A, 65 W / Input: 100-240 V AC, 50 / 60 Hz universal |

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About ASUS

ASUS is a global technology leader that provides the world's most innovative and intuitive devices, components and solutions to deliver incredible experiences that enhance the lives of people everywhere. With its team of 5,000 in-house R&D experts, ASUS is world-renowned for continuously reimagining today's technologies for tomorrow, garners more than 11 awards every day for quality, innovation and design, and is ranked among Fortune's World's Most Admired Companies.



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¹ Intel Core Ultra processors and NVIDIA discrete graphics are available on selected models only. Availability varies by country and region.

² WiFi 7 network card is available on selected models.

³ The same device will offer differing levels of available storage depending on the chosen RAID level. If RAID 0 is used, the system combines the capacity of all SSDs in order to enhance data-transfer speeds. The available storage will equal the combined physical capacity of all the SSDs on the device. However, if the device is configured with RAID 1, two copies of the data are saved simultaneously in order to protect your data if one SSD fails. As a result, the available storage capacity will be half of the combined physical storage capacity, as half the storage is used for backup copies. For example, a device with two 1 TB SSDs in a RAID 0 configuration will have 2 TB of available storage capacity, but with RAID 1 the available storage capacity will be 1 TB.

⁴ ASUS Endpoint Management Service (AEMS) and ASUS Pre-Deployment Service (APDS) are optional and their availability varies according to country. Please check with your local ASUS retailer for details.

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⁵ 1.29 kg weight based on 50 Wh battery and standard (non-touchscreen) display. Weight and thickness may vary according to configuration.

⁶ The testing regime includes the requirements of both military-grade standards and ASUS quality tests, and varies depending on device. MIL-STD-810H testing is conducted on selected ASUS products only. Note that the MIL-STD-810H testing helps to ensure the quality of ASUS products but does not indicate a particular fitness for military use. The test is performed under laboratory conditions. Any damage caused by attempts to replicate these test conditions would be considered accidental, and would not be covered by the standard ASUS warranty. Additional coverage is available with ASUS Premium Care.

⁷ Specifications, content and product availability are all subject to change without notice and may differ from country to country. Actual performance may vary depending on applications, usage, environment and other factors. Full specifications are available at <http://www.asus.com>