

# 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.



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<sup>1</sup>

### 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<sup>2</sup>

- 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.

<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	B5604CMA / 90NX0751-M001B0
<b>Operating System</b>	Windows 11 Pro
<b>Office</b>	1-month trial for new Microsoft 365 customers. Credit card required.
<b>LCD cover-material</b>	Aluminum
<b>LCD cover-color</b>	Star Black
<b>Top case-material</b>	Aluminum + MgAl
<b>Top case-color</b>	Star Black
<b>Bottom case-material</b>	Aluminum
<b>Bottom case-color</b>	Star Black
<b>Military grade</b>	US MIL-STD 810H military-grade standard
<b>Panel Size</b>	16.0-inch
<b>Backlit</b>	LED Backlit
<b>Brightness</b>	400nits
<b>Resolution</b>	WUXGA (1920 x 1200) 16:10
<b>Glare</b>	Anti-glare display
<b>View angle(H/V)</b>	178/178
<b>Response time(Typ/Max) (ms)</b>	25/30
<b>Refresh rate</b>	60Hz
<b>Contrast (Typ)</b>	1500:1
<b>Touch Panel</b>	Non-touch screen
<b>Screen-to-body ratio</b>	85 %
<b>IPS-level</b>	Wide view
<b>Processor</b>	Intel® Core™ Ultra 5 Processor 125U 1.3 GHz (12MB Cache, up to 4.3 GHz, 12 Cores, 14 Threads); Intel® AI Boost NPU
<b>Neural processor</b>	Intel® AI Boost NPU
<b>Chipset</b>	N/A
<b>Discrete/Share</b>	Share
<b>Integrated GPU</b>	Intel® Graphics

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<b>VRAM</b>	N/A
<b>How to upgrade memory</b>	Upgradable; Need to remove bottom/top case
<b>Expansion Slot(includes used)</b>	2x DDR5 SO-DIMM slots 1x M.2 2230 PCIe 4.0x4 1x M.2 2280 PCIe 4.0x4
<b>DIMM Memory</b>	16GB DDR5 SO-DIMM
<b>Total System Memory</b>	DDR5 16GB
<b>Storage</b>	512GB M.2 2280 NVMe™ PCIe® 4.0 SSD SSD Housing for storage expansion
<b>Front-facing camera</b>	1080p FHD camera with IR function to support Windows Hello With privacy shutter
<b>Wireless</b>	Wi-Fi 6E(802.11ax) (Triple band) 2*2 + Bluetooth® 5.4 Wireless Card
<b>NumberPad</b>	N/A
<b>FingerPrint</b>	FingerPrint
<b>Keyboard type</b>	Backlit Chiclet Keyboard
<b>I/O ports</b>	2x USB 3.2 Gen 2 Type-A 2x Thunderbolt™ 4, compliant with USB4, support display / power delivery 1x HDMI 2.1 TMDS 1x 3.5mm Combo Audio Jack 1x RJ45 Gigabit Ethernet Smart card reader
<b>Audio</b>	Dolby Atmos Built-in array microphone
<b>Battery</b>	63WHrs, 3S1P, 3-cell Li-ion
<b>AC Adapter</b>	TYPE-C, 65W AC Adapter, Output: 20V DC, 3.25A, 65W, Input: 100~240V AC 50/60Hz universal
<b>Required charging power</b>	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.
<b>Dimension (WxHxD)</b>	35.80 x 25.43 x 1.89 ~ 2.29 cm (14.09" x 10.01" x 0.74" ~ 0.90")
<b>Weight (with Battery)</b>	1.81 kg (3.99 lbs)
<b>Weight (w/o Battery)</b>	1.58 kg (3.48 lbs)

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<b>Security</b>	Fingerprint sensor integrated with Power Key Kensington Nano Security Slot™(6x 2.5mm) BIOS Booting User Password Protection BIOS setup user password HDD User Password Protection and Security Support Absolute Persistence 2.0 (Computrace) Trusted Platform Module (TPM) 2.0 N/A
<b>Antivirus</b>	N/A
<b>MyASUS feature</b>	System diagnosis Battery health charging Fan Profile Splendid Tru2Life Function key lock WiFi SmartConnect AppDeals Link to MyASUS
<b>Built-in Apps</b>	MyASUS
<b>Disclaimer for Built-in Apps</b>	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)
<b>Reparability Index (for Belgium)</b>	9.3
<b>Reparability Index (for France)</b>	9.6
<b>Ecolabels &amp; Compliances</b>	EPEAT Gold Energy star 8.0 FSC Recycled REACH RoHS
<b>Base Warranty</b>	1Y Pick up/ return; ZENCARE + 1Y Pick up/ return
<b>Recommended Warranty Package Part number//Extension and/or upgrade service from base warranty</b>	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.
<b>Battery warranty</b>	Commercial NB B series Battery warranty follow system warranty, 4Y-5Y by WEP option.
<b>Sustainable Material_Top cover(A part)</b>	50% PIR recycled aluminum
<b>Sustainable Material_Keyboard frame (C part)</b>	90% PIR recycled aluminum
<b>Sustainable Material_Bottom cover (D part)</b>	90% PIR recycled aluminum

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**Sustainable Material\_Speaker** 45% PCR + 5% OBP PCR recycled plastic enclosure

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