

Model	B5604CVA	B5604CVF	B5604CMA
Color	Star Black	Star Black	Star Black
Operating System	Windows 11 Pro Education *Some devices for academic use will automatically be updated to Windows 11 Pro Education with the Windows 11 Anniversary Update. Features vary; see https://aka.ms/ProEducation for Windows 11 Pro Education feature information. Windows 11 Pro Windows 11 Home - ASUS recommends Windows 11 Pro for business Non-preinstalled OS	Windows 11 Pro Windows 11 Home - ASUS recommends Windows 11 Pro for business Non-preinstalled OS	Windows 11 Pro Education *Some devices for academic use will automatically be updated to Windows 11 Pro Education with the Windows 11 Anniversary Update. Features vary; see https://aka.ms/ProEducation for Windows 11 Pro Education feature information. Windows 11 Pro Windows 11 Home - ASUS recommends Windows 11 Pro for business Non-preinstalled OS
Processor	Intel® Core™ 7 Processor 150U 1.8 GHz (12MB Cache, up to 5.4	Intel® Core™ i7-1355U Processor 1.7 GHz (12MB Cache, up to 5.0	Intel® Core™ Ultra 7 Processor 155H 1.4 GHz (24MB Cache, up to

	GHz, 10 Cores) Intel® Core™ i7-1370P vPro® processor 1.9 GHz (24M Cache, up to 5.2 GHz, 14 cores) Intel® Core™ i5-1350P vPro® processor 1.9 GHz (12M Cache, up to 4.7 GHz, 12 cores) Intel® Core™ 5 Processor 120U 1.4 GHz (12MB Cache, up to 5.0 GHz, 10 Cores) Intel® Core™ i7-1360P Processor 2.2 GHz (18MB Cache, up to 5.0 GHz, 12 cores, 16 Threads) Intel® Core™ i5-1340P Processor 1.9 GHz (12MB Cache, up to 4.6 GHz, 12 cores, 16 Threads) Intel® Core™ i7-1355U Processor 1.7 GHz (12MB Cache, up to 5.0 GHz, 10 cores, 12 Threads) Intel® Core™ i5-1335U Processor 1.3GHz (12M Cache, up to 4.6GHz, 10 cores)	GHz, 10 cores, 12 Threads) Intel® Core™ i5-1335U Processor 1.3GHz (12M Cache, up to 4.6GHz, 10 cores)	4.8 GHz, 16 Cores); Intel® AI Boost NPU Intel vPro® Essentials with Intel® Core™ Ultra 7 processor 155H 1.4 GHz (24M Cache, up to 4.8 GHz, 16 cores); Intel® AI Boost NPU Intel® Core™ Ultra 7 vPro® processor 165H 1.4 GHz (24M Cache, up to 5.0 GHz, 16 cores); Intel® AI Boost NPU Intel® Core™ Ultra 7 Processor 155U 1.7 GHz (12MB Cache, up to 4.8 GHz, 12 Cores); Intel® AI Boost NPU Intel® Core™ Ultra 5 Processor 125H 1.2 GHz (18MB Cache, up to 4.5 GHz, 14 Cores); Intel® AI Boost NPU Intel® Core™ Ultra 5 vPro® processor 135H 1.7 GHz (18M Cache, up to 4.6 GHz, 14 cores); Intel® AI Boost NPU Intel® Core™ Ultra 5 Processor 125U 1.3 GHz (12MB Cache, up to 4.3 GHz, 12 Cores); Intel® AI Boost NPU
Graphics	Intel® Graphics Intel Iris Xe Graphics (available for Intel® Core™ i5/i7/i9 with dual channel memory)	NVIDIA® GeForce® RTX 2050, Intel Iris Xe Graphics (available for Intel® Core™ i5/i7/i9 with dual channel memory)	Intel® Graphics Intel® Arc™ Graphics(available for Intel® Core™ Ultra H 5/7/9 with dual channel memory)
Neural processor	Intel® AI Boost NPU		Intel® AI Boost NPU

Display

WQXGA (2560 x 1600) 16:10, 16.0-inch, 500nits, Wide view, LED Backlit, Anti-glare display, Non-touch screen, Screen-to-body ratio:85 %	WQXGA (2560 x 1600) 16:10, DCI-P3: 100%, 16.0-inch, 500nits, Wide view, LED Backlit, Anti-glare display, Non-touch screen, Screen-to-body ratio:85 %	WQXGA (2560 x 1600) 16:10, DCI-P3: 100%, 16.0-inch, 500nits, Wide view, LED Backlit, Anti-glare display, Touch screen, With stylus support, Screen-to-body ratio:85 %
WQXGA (2560 x 1600) 16:10, DCI-P3: 100%, 16.0-inch, 500nits, Wide view, LED Backlit, Anti-glare display, Touch screen, With stylus support, Screen-to-body ratio:85 %	WQXGA (2560 x 1600) 16:10, DCI-P3: 100%, 16.0-inch, 500nits, Wide view, LED Backlit, Anti-glare display, Touch screen, With stylus support, Screen-to-body ratio:85 %	WQXGA (2560 x 1600) 16:10, DCI-P3: 100%, 16.0-inch, 500nits, Wide view, LED Backlit, Anti-glare display, Non-touch screen, Screen-to-body ratio:85 %
WUXGA (1920 x 1200) 16:10, 16.0-inch, 300nits, Wide view, LED Backlit, Anti-glare display, NTSC: 45%, Non-touch screen, Screen-to-body ratio:85 %	WUXGA (1920 x 1200) 16:10, 16.0-inch, 300nits, Wide view, LED Backlit, Anti-glare display, NTSC: 45%, Non-touch screen, Screen-to-body ratio:85 %	WUXGA (1920 x 1200) 16:10, 16.0-inch, 400nits, Wide view, LED Backlit, Anti-glare display, Non-touch screen, Screen-to-body ratio:85 %
WUXGA (1920 x 1200) 16:10, 16.0-inch, 400nits, Wide view, LED Backlit, Anti-glare display, Non-touch screen, Screen-to-body ratio:85 %	WUXGA (1920 x 1200) 16:10, 16.0-inch, 400nits, Wide view, LED Backlit, Anti-glare display, Non-touch screen, Screen-to-body ratio:85 %	WUXGA (1920 x 1200) 16:10, 16.0-inch, 300nits, Wide view, LED Backlit, Anti-glare display, NTSC: 45%, Non-touch screen, Screen-to-body ratio:85 %
WUXGA (1920 x 1200) 16:10, 16.0-inch, 300nits, Wide view, LED Backlit, Anti-glare display, NTSC: 45%, Touch screen, With stylus support, Screen-to-body ratio:85 %	WUXGA (1920 x 1200) 16:10, 16.0-inch, 300nits, Wide view, LED Backlit, Anti-glare display, NTSC: 45%, Touch screen, With stylus support, Screen-to-body ratio:85 %	WUXGA (1920 x 1200) 16:10, 16.0-inch, 300nits, Wide view, LED Backlit, Anti-glare display, NTSC: 45%, Touch screen, With stylus support, Screen-to-body ratio:85 %

Memory	32GB DDR5 SO-DIMM x 2 32GB DDR5 SO-DIMM 16GB DDR5 SO-DIMM 16GB DDR5 SO-DIMM x 2 8GB DDR5 SO-DIMM x 2 8GB DDR5 SO-DIMM	32GB DDR5 SO-DIMM x 2, Memory Max Up to:64GB 32GB DDR5 SO-DIMM, Memory Max Up to:64GB 16GB DDR5 SO-DIMM, Memory Max Up to:64GB 16GB DDR5 SO-DIMM x 2, Memory Max Up to:64GB 8GB DDR5 SO-DIMM x 2, Memory Max Up to:64GB 8GB DDR5 SO-DIMM, Memory Max Up to:64GB	32GB DDR5 SO-DIMM 32GB DDR5 SO-DIMM x 2 16GB DDR5 SO-DIMM 16GB DDR5 SO-DIMM x 2 8GB DDR5 SO-DIMM x 2 8GB DDR5 SO-DIMM
Storage	512GB M.2 2280 NVMe™ PCIe® 4.0 SSD, TCG Opal 2.0 self-encrypting drive (SED) 2TB M.2 2280 NVMe™ PCIe® 4.0 Performance SSD 1TB M.2 2280 NVMe™ PCIe® 4.0 Performance SSD 512GB M.2 2280 NVMe™ PCIe® 4.0 Performance SSD 1TB M.2 2280 NVMe™ PCIe® 4.0 SSD 512GB M.2 2280 NVMe™ PCIe® 4.0 SSD 256GB M.2 2280 NVMe™ PCIe® 4.0 SSD	512GB M.2 2280 NVMe™ PCIe® 4.0 SSD, TCG Opal 2.0 self-encrypting drive (SED) 2TB M.2 2280 NVMe™ PCIe® 4.0 Performance SSD 1TB M.2 2280 NVMe™ PCIe® 4.0 Performance SSD 512GB M.2 2280 NVMe™ PCIe® 4.0 Performance SSD 1TB M.2 2280 NVMe™ PCIe® 4.0 SSD 512GB M.2 2280 NVMe™ PCIe® 4.0 SSD	512GB M.2 2280 NVMe™ PCIe® 4.0 SSD, TCG Opal 2.0 self-encrypting drive (SED) 2TB M.2 2280 NVMe™ PCIe® 4.0 Performance SSD 1TB M.2 2280 NVMe™ PCIe® 4.0 Performance SSD 512GB M.2 2280 NVMe™ PCIe® 4.0 Performance SSD 1TB M.2 2280 NVMe™ PCIe® 4.0 SSD 512GB M.2 2280 NVMe™ PCIe® 4.0 SSD + 512GB M.2 2230 NVMe™ PCIe® 4.0 SSD(RAID0) 512GB M.2 2280 NVMe™ PCIe® 4.0 SSD 512GB M.2 2230 NVMe™ PCIe® 4.0 SSD 256GB M.2 2280 NVMe™ PCIe® 4.0 SSD
I/O Ports	2x Thunderbolt™ 4, compliant with USB4, supports display / power	2x Thunderbolt™ 4, compliant with USB4, supports display / power	2x Thunderbolt™ 4, compliant with USB4, supports display / power

	delivery 2x USB 3.2 Gen 2 Type-A 1x RJ45 Gigabit Ethernet 1x 3.5mm Combo Audio Jack 1x HDMI 2.1 TMDS Smart card reader	delivery 2x USB 3.2 Gen 2 Type-A 1x RJ45 Gigabit Ethernet 1x 3.5mm Combo Audio Jack 1x HDMI 2.1 TMDS Smart card reader	delivery 2x USB 3.2 Gen 2 Type-A 1x RJ45 Gigabit Ethernet 1x 3.5mm Combo Audio Jack 1x HDMI 2.1 TMDS Smart card reader
Expansion Slots(includes used)	1x M.2 2280 PCIe 4.0x4 2x DDR5 SO-DIMM slots	1x M.2 2280 PCIe 4.0x4 2x DDR5 SO-DIMM slots	1x M.2 2230 PCIe 4.0x4 1x M.2 2280 PCIe 4.0x4 2x DDR5 SO-DIMM slots
Keyboard & Touchpad	1.5mm Key-travel, Backlit Chiclet Keyboard, Spill-resistant Keyboard 1.5mm Key-travel, Spill-resistant Keyboard, Chiclet Keyboard	1.5mm Key-travel, Backlit Chiclet Keyboard, Spill-resistant Keyboard 1.5mm Key-travel, Spill-resistant Keyboard, Chiclet Keyboard	1.5mm Key-travel, Backlit Chiclet Keyboard, Spill-resistant Keyboard 1.5mm Key-travel, Spill-resistant Keyboard, Chiclet Keyboard
Camera	1080p FHD camera With privacy shutter	1080p FHD camera With privacy shutter	1080p FHD camera with IR function to support Windows Hello 1080p FHD camera With privacy shutter
Audio	Built-in array microphone Built-in speaker Dolby Atmos	Built-in array microphone Built-in speaker Dolby Atmos	Built-in array microphone Dolby Atmos
Network and Communication	Wi-Fi 6E(802.11ax) (Dual band) 2*2 + Bluetooth® 5.3 Wireless Card (Vpro) Wi-Fi 6E(802.11ax) (Dual band) 2*2 + Bluetooth® 5.3 Wireless	Wi-Fi 6E(802.11ax) (Dual band) 2*2 + Bluetooth® 5.3 Wireless Card	Wi-Fi 7(802.11be) (Triple band) 2*2 + Bluetooth® 5.4 Wireless Card (Vpro) Wi-Fi 7(802.11be) (Triple band) 2*2 + Bluetooth® 5.4 Wireless Card

	Card 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 (Vpro) Wi-Fi 6E(802.11ax) (Dual band) 2*2 + Bluetooth® 5.3 Wireless Card 4G LTE support (in selected territories) Wi-Fi 6(802.11ax) (Dual band) 2*2 + Bluetooth® 5.2 Wireless Card
Battery	63WHrs, 3S1P, 3-cell Li-ion 50WHrs, 3S1P, 3-cell Li-ion Long life rechargeable lithium polymer battery.	63WHrs, 3S1P, 3-cell Li-ion Long life rechargeable lithium polymer battery.	63WHrs, 3S1P, 3-cell Li-ion 50WHrs, 3S1P, 3-cell Li-ion Long life rechargeable lithium polymer battery.
Power Supply	TYPE-C, 65W AC Adapter, Output: 20V DC, 3.25A, 65W, Input: 100~240V AC 50/60Hz universal	TYPE-C, 90W AC Adapter, Output: 20V DC, 4.5A, 90W, Input: 100~240V AC 50/60Hz universal	TYPE-C, 65W AC Adapter, Output: 20V DC, 3.25A, 65W, Input: 100~240V AC 50/60Hz universal
Weight	Start from:01.65 kg (3.64 lbs)	Start from:01.79 kg (3.95 lbs)	Start from:01.65 kg (3.64 lbs)
Dimensions (W x D x H)	35.80 x 25.43 x 1.89 ~ 2.29 cm (14.09" x 10.01" x 0.74" ~ 0.90")	35.80 x 25.43 x 1.89 ~ 2.29 cm (14.09" x 10.01" x 0.74" ~ 0.90")	35.80 x 25.43 x 1.89 ~ 2.29 cm (14.09" x 10.01" x 0.74" ~ 0.90")
Built-in Apps	MyASUS	MyASUS	MyASUS

MyASUS Features

Link to MyASUS
AppDeals
WiFi SmartConnect
Function key lock
Tru2Life
Splendid
Fan Profile
Battery health charging
System diagnosis

Link to MyASUS
AppDeals
WiFi SmartConnect
Function key lock
Tru2Life
Splendid
Fan Profile
Battery health charging
System diagnosis

Link to MyASUS
AppDeals
WiFi SmartConnect
Function key lock
Tru2Life
Splendid
Fan Profile
Battery health charging
System diagnosis

Military Grade

US MIL-STD 810H military-grade standard

US MIL-STD 810H military-grade standard

US MIL-STD 810H military-grade standard

Ecolabels & Compliances

REACH
RoHS
FSC Recycled
Energy star 8.0
EPEAT Gold

REACH
RoHS
FSC Recycled
Energy star 8.0
EPEAT Gold

REACH
RoHS
FSC Recycled
Energy star 8.0
EPEAT Gold

Security

Support Absolute Persistence 2.0 (Computrace)
Kensington Nano Security Slot™(6x 2.5mm)
BIOS setup user password
Trusted Platform Module (TPM) 2.0
Fingerprint sensor integrated with Power Key
Trusted Platform Module (Firmware TPM)
BIOS Booting User Password Protection

Support Absolute Persistence 2.0 (Computrace)
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Trusted Platform Module (TPM) 2.0
Fingerprint sensor integrated with Power Key
Trusted Platform Module (Firmware TPM)
BIOS Booting User Password Protection

	HDD User Password Protection and Security	HDD User Password Protection and Security	HDD User Password Protection and Security
Included in the Box (Optional)	MPP 2.0 ASUS Pen Wireless optical mouse Wired optical mouse (USB) Carry bag Backpack	MPP 2.0 ASUS Pen Wireless optical mouse Wired optical mouse (USB) Carry bag Backpack	MPP 2.0 ASUS Pen Wireless optical mouse Wired optical mouse (USB) Carry bag Backpack