

## ASUS Vivobook 16 (X1605)

Overview :

Intel Series 1 processor ▾

Tech Specs

Review

Support

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| Model            | X1605EA   | X1605PA  | X1605VA   | X1605VAP  |
|------------------|---|--|---|---|
| Color            | Transparent Silver<br>Indie Black   | Cool Silver<br>Indie Black   | Cool Silver<br>Indie Black  | Cool Silver<br>Indie Black  |
| Operating System | Windows 11 Home - ASUS recommends Windows 11 Pro for business<br>Windows 11 Pro - ASUS recommends Windows 11 Pro for business<br>No preinstalled OS   | Windows 11 Home - ASUS recommends Windows 11 Pro for business<br>No preinstalled OS  | Windows 11 Home - ASUS recommends Windows 11 Pro for business<br>No preinstalled OS<br>Windows 11 Pro - ASUS recommends Windows 11 Pro for business   | No preinstalled OS<br>Windows 11 Home - ASUS recommends Windows 11 Pro for business   |
| Processor        | Intel® Core™ i5-1135G7 Processor 2.4 GHz (8M Cache, up to 4.2 GHz, 4 cores)<br>Intel® Core™ i3-1115G4 Processor 3.0 GHz (6M Cache, up to 4.1 GHz, 2 cores)<br>Intel® Core™ i7-1165G7 Processor 2.8 GHz (12M Cache, up to 4.7 GHz, 4 cores)  | Intel® Core™ i5-11300H Processor 3.1 GHz (8M Cache, up to 4.4 GHz, 4 cores)<br>Intel® Core™ i7-11370H Processor 3.3 GHz (12M Cache, up to 4.8 GHz, 4 cores)  | Intel® Core™ i5-13500H Processor 2.6 GHz (18MB Cache, up to 4.7 GHz, 12 cores, 16 Threads)<br>Intel® Core™ i5-1335U Processor 1.3 GHz (12MB Cache, up to 4.6 GHz, 10 cores, 12 Threads)<br>Intel® Core™ i9-13900H Processor 2.6 GHz (24MB Cache, up to 5.4 GHz, 14 cores, 20 Threads)<br>Intel® Core™ i7-13700H Processor 2.4 GHz (24MB Cache, up to 5.0 GHz, 14 cores, 20 Threads)<br>Intel® Core™ i7-1355U Processor 1.7 GHz (12MB Cache, up to 5.0 GHz, 10 cores, 12 Threads)<br>Intel® Core™ i3-1315U Processor 1.2 GHz (10MB Cache, up to 4.5 GHz, 6 cores, 8 Threads)   | Intel® Core™ 5 Processor 120U 1.4 GHz (12MB Cache, up to 5.0 GHz, 10 cores, 12 Threads)<br>Intel® Core™ 7 Processor 150U 1.8 GHz (12MB Cache, up to 5.4 GHz, 10 cores, 12 Threads)  |
| Graphics         | Intel Iris X® Graphics<br>*Intel Iris X® Graphics is only available in models with Intel® Core™ i5/i7/i9 processors and dual-channel memory.<br>Intel® UHD Graphics<br>*Intel Iris X® Graphics is only available in models with Intel® Core™ i5/i7/i9 processors and dual-channel memory. | Intel® UHD Graphics<br>*Intel Iris X® Graphics is only available in models with Intel® Core™ i5/i7/i9 processors and dual-channel memory.<br>Intel Iris X® Graphics<br>*Intel Iris X® Graphics is only available in models with Intel® Core™ i5/i7/i9 processors and dual-channel memory.  | Intel Iris X® Graphics<br>*Intel Iris X® Graphics is only available in models with Intel® Core™ i5/i7/i9 processors and dual-channel memory.<br>Intel® UHD Graphics<br>*Intel Iris X® Graphics is only available in models with Intel® Core™ i5/i7/i9 processors and dual-channel memory.   | Intel® Graphics<br>*Intel Iris X® Graphics is only available in models with Intel® Core™ i5/i7/i9 processors and dual-channel memory.   |
| Display          | 16.0-inch, WUXGA (1920 x 1200) 16:10 aspect ratio, IPS-level Panel, 60Hz refresh rate, 300nits, 45% NTSC color gamut, Anti-glare display, TÜV Rheinland-certified, Non-touch screen, (Screen-to-body ratio)86%  | 16.0-inch, WUXGA (1920 x 1200) 16:10 aspect ratio, IPS-level Panel, LED Backlit, 60Hz refresh rate, 300nits, 45% NTSC color gamut, Anti-glare display, TÜV Rheinland-certified, Non-touch screen, (Screen-to-body ratio)86%  | 16.0-inch, WUXGA (1920 x 1200) 16:10 aspect ratio, IPS-level Panel, 60Hz refresh rate, 300nits, 45% NTSC color gamut, Anti-glare display, TÜV Rheinland-certified, Non-touch screen, (Screen-to-body ratio)86%<br>16.0-inch, WUXGA (1920 x 1200) 16:10 aspect ratio, IPS-level Panel, 120Hz refresh rate, 300nits, 100% Adobe color gamut, Anti-glare display, TÜV Rheinland-certified, Non-touch screen, (Screen-to-body ratio)86%<br>16.0-inch, WQXGA (2560 x 1600) 16:10 aspect ratio, IPS-level Panel, 144Hz refresh rate, 400nits, 100% DCI-P3 color gamut, Anti-glare display, TÜV Rheinland-certified, Non-touch screen, (Screen-to-body ratio)86% | 16.0-inch, WUXGA (1920 x 1200) 16:10 aspect ratio, LED Backlit, 60Hz refresh rate, 300nits, 45% NTSC color gamut, Anti-glare display, TÜV Rheinland-certified, Non-touch screen, (Screen-to-body ratio)86%<br>16.0-inch, WQXGA (2560 x 1600) 16:10 aspect ratio, LED Backlit, 144Hz refresh rate, 400nits, 100% Adobe color gamut, Anti-glare display, TÜV Rheinland-certified, Non-touch screen, (Screen-to-body ratio)86% |
| Memory           | 8GB DDR4 on board<br>8GB DDR4 SO-DIMM<br>Max Total system memory up to:16GB<br>*Dual-channel memory support requires at least one SO-DIMM module.<br>8GB DDR4 on board<br>Max Total system memory up to:16GB<br>*Dual-channel memory support requires at least one SO-DIMM module.        | 8GB DDR4 on board<br>Max Total system memory up to:16GB<br>*Dual-channel memory support requires at least one SO-DIMM module.<br>8GB DDR4 on board<br>8GB DDR4 SO-DIMM<br>Max Total system memory up to:16GB<br>*Dual-channel memory support requires at least one SO-DIMM module.<br>8GB DDR4 on board<br>16GB DDR4 SO-DIMM<br>Max Total system memory up to:16GB<br>*Dual-channel memory support requires at least | 8GB DDR4 on board<br>8GB DDR4 SO-DIMM<br>Max Total system memory up to:16GB<br>*Dual-channel memory support requires at least one SO-DIMM module.<br>8GB DDR4 on board<br>Max Total system memory up to:16GB<br>*Dual-channel memory support requires at least one SO-DIMM module.<br>16GB DDR4 on board<br>Max Total system memory up to:24GB<br>*Dual-channel memory support requires at least one SO-DIMM module.  | 8GB DDR4 on board<br>Max Total system memory up to:16GB<br>*Dual-channel memory support requires at least one SO-DIMM module.<br>8GB DDR4 on board<br>8GB DDR4 SO-DIMM<br>Max Total system memory up to:16GB<br>*Dual-channel memory support requires at least one SO-DIMM module.  |

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|  | one SO-DIMM module.<br>8GB DDR4 on board<br>4GB DDR4 SO-DIMM<br>Max Total system memory up to:16GB<br>*Dual-channel memory support requires at least one SO-DIMM module.   | 4GB DDR4 on board<br>4GB DDR4 SO-DIMM<br>Max Total system memory up to:16GB<br>*Dual-channel memory support requires at least one SO-DIMM module.<br>16GB DDR4 on board<br>8GB DDR4 SO-DIMM<br>Max Total system memory up to:24GB<br>*Dual-channel memory support requires at least one SO-DIMM module.<br>16GB DDR4 on board<br>Max Total system memory up to:32GB<br>*Dual-channel memory support requires at least one SO-DIMM module.<br>16GB DDR4 on board<br>16GB DDR4 SO-DIMM<br>Max Total system memory up to:24GB<br>*Dual-channel memory support requires at least one SO-DIMM module.<br>16GB DDR4 on board<br>8GB DDR4 SO-DIMM<br>Max Total system memory up to:32GB<br>*Dual-channel memory support requires at least one SO-DIMM module. |  |  |
| <b>Storage</b>                         | 512GB M.2 NVMe™ PCIe® 3.0 SSD<br>256GB M.2 NVMe™ PCIe® 3.0 SSD<br>1TB M.2 NVMe™ PCIe® 3.0 SSD  | 512GB M.2 NVMe™ PCIe® 3.0 SSD<br>1TB M.2 NVMe™ PCIe® 3.0 SSD<br>256GB M.2 NVMe™ PCIe® 3.0 SSD  | 512GB M.2 NVMe™ PCIe® 3.0 SSD<br>1TB M.2 NVMe™ PCIe® 3.0 SSD<br>256GB M.2 NVMe™ PCIe® 3.0 SSD<br>512GB M.2 NVMe™ PCIe® 4.0 SSD<br>1TB M.2 NVMe™ PCIe® 4.0 SSD  | 512GB M.2 NVMe™ PCIe® 4.0 SSD<br>1TB M.2 NVMe™ PCIe® 4.0 SSD   |
| <b>Expansion Slots (includes used)</b> | 1x DDR4 SO-DIMM slot<br>1x M.2 2280 PCIe 3.0x4   | 1x DDR4 SO-DIMM slot<br>1x M.2 2280 PCIe 3.0x4   | 1x DDR4 SO-DIMM slot<br>1x M.2 2280 PCIe 3.0x4   | 1x DDR4 SO-DIMM slot<br>1x M.2 2280 PCIe 3.0x4   |
| <b>I/O Ports</b>                       | 1x USB 2.0 Type-A<br>1x USB 3.2 Gen 1 Type-C<br>2x USB 3.2 Gen 1 Type-A<br>1x HDMI 1.4<br>1x Headphone/Headset<br>1x DC-in   | 1x USB 2.0 Type-A<br>1x USB 3.2 Gen 1 Type-C support power delivery<br>2x USB 3.2 Gen 1 Type-A<br>1x HDMI 1.4<br>1x Headphone out<br>1x DC-in  | 1x USB 2.0 Type-A<br>1x USB 3.2 Gen 1 Type-C support power delivery<br>2x USB 3.2 Gen 1 Type-A<br>1x HDMI 1.4<br>1x 3.5mm Combo Audio Jack<br>1x DC-in   | 1x USB 2.0 Type-A<br>1x USB 3.2 Gen 1 Type-C support power delivery<br>2x USB 3.2 Gen 1 Type-A<br>1x HDMI 1.4<br>1x 3.5mm Combo Audio Jack<br>1x DC-in |
| <b>Keyboard &amp; Touchpad</b>         | Chiclet Keyboard with Num-key, 1.35mm Key-travel, Touchpad<br>Backlit Chiclet Keyboard with Num-key, 1.35mm Key-travel, Precision touchpad<br>Backlit Chiclet Keyboard with Num-key, 1.35mm Key-travel, Touchpad<br>Chiclet Keyboard with Num-key, 1.35mm Key-travel, Precision touchpad | Chiclet Keyboard with Num-key, 1.35mm Key-travel, Precision touchpad<br>Backlit Chiclet Keyboard with Num-key, 1.35mm Key-travel, Touchpad<br>Chiclet Keyboard with Num-key, 1.35mm Key-travel, Touchpad<br>Backlit Chiclet Keyboard with Num-key, 1.35mm Key-travel, Precision touchpad   | Chiclet Keyboard with Num-key, 1.4mm Key-travel, Touchpad<br>Backlit Chiclet Keyboard with Num-key, 1.4mm Key-travel, Touchpad<br>Backlit Chiclet Keyboard with Num-key, 1.4mm Key-travel, Precision touchpad<br>Chiclet Keyboard with Num-key, 1.4mm Key-travel, Precision touchpad | Backlit Chiclet Keyboard with Num-key, 1.35mm Key-travel, Precision touchpad<br>Chiclet Keyboard with Num-key, 1.35mm Key-travel, Precision touchpad   |
| <b>Camera</b>                          | 720p HD camera<br>With privacy shutter   | 720p HD camera<br>With privacy shutter   | 720p HD camera<br>With privacy shutter   | 720p HD camera<br>With privacy shutter   |
| <b>Audio</b>                           | SonicMaster<br>Built-in speaker<br>Built-in microphone with Cortana voice-recognition support  | SonicMaster<br>Built-in speaker<br>Built-in array microphone with Cortana voice-recognition support  | SonicMaster<br>Built-in speaker<br>Built-in array microphone with Cortana voice-recognition support  | SonicMaster<br>Built-in speaker<br>Built-in microphone   |
| <b>Network and Communication</b>       | Wi-Fi 6(802.11ax) (Dual band) 2*2 + Bluetooth® 5.3 Wireless Card<br>Wi-Fi 5(802.11ac) (Dual band) 1*1 + Bluetooth® 5.1 Wireless Card (*Bluetooth® version may change with OS version different.)   | Wi-Fi 6E(802.11ax) (Dual band) 1*1 + Bluetooth® 5.3 Wireless Card (*Bluetooth® version may change with OS version different.)<br>Wi-Fi 5(802.11ac) (Dual band) 1*1 + Bluetooth® 5.1 Wireless Card (*Bluetooth® version may change with OS version different.)  | Wi-Fi 6E(802.11ax) (Dual band) 1*1 + Bluetooth® 5.3 Wireless Card (*Bluetooth® version may change with OS version different.)<br>Wi-Fi 5(802.11ac) (Dual band) 1*1 + Bluetooth® 5.1 Wireless Card (*Bluetooth® version may change with OS version different.)                        | Wi-Fi 6(802.11ax) (Dual band) 1*1 + Bluetooth® 5.2 Wireless Card (*Bluetooth® version may change with OS version different.)                           |
| <b>Battery</b>                         | 42WHrs, 3S1P, 3-cell Li-ion  | 42WHrs, 3S1P, 3-cell Li-ion  | 42WHrs, 3S1P, 3-cell Li-ion  | 42WHrs, 3S1P, 3-cell Li-ion  |
| <b>Power Supply</b>                    | ø4.5, 45W AC Adapter, Output: 19V DC, 2.37A, 45W, Input: 100~240V AC 50/60Hz universal   | ø4.5, 65W AC Adapter, Output: 19V DC, 3.42A, 65W, Input: 100~240V AC 50/60Hz universal   | ø4.5, 65W AC Adapter, Output: 19V DC, 3.42A, 65W, Input: 100~240V AC 50/60Hz universal<br>ø4.5, 45W AC Adapter, Output: 19V DC, 2.37A, 45W, Input: 100~240V AC 50/60Hz universal<br>45W AC Adapter (included with RPL U series Processor)  | ø4.0, 45W AC Adapter, Output: 19V DC, 2.37A, 45W, Input: 100~240V AC 50/60Hz universal   |



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| <b>Weight</b>                      | 1.88 kg (4.14 lbs)   | 1.88 kg (4.14 lbs)   | 1.88 kg (4.14 lbs)   | 1.88 kg (4.14 lbs)   |
| <b>Dimensions (W x D x H)</b>      | 35.86 x 24.95 x 1.99 ~ 1.99 cm (14.12" x 9.82" x 0.78" ~ 0.78")  | 35.86 x 24.95 x 1.99 ~ 1.99 cm (14.12" x 9.82" x 0.78" ~ 0.78")  | 35.87 x 24.95 x 1.99 ~ 1.99 cm (14.12" x 9.82" x 0.78" ~ 0.78")  | 35.87 x 24.95 x 1.99 ~ 1.99 cm (14.12" x 9.82" x 0.78" ~ 0.78")  |
| <b>Built-in Apps</b>               | MyASUS<br>ScreenXpert<br>GlideX  | MyASUS<br>ScreenXpert<br>GlideX  | MyASUS<br>ScreenXpert<br>GlideX  | MyASUS   |
| <b>MyASUS Features</b>             | System diagnosis<br>Battery health charging<br>Fan Profile<br>Splendid<br>Tru2Life<br>Function key lock<br>WiFi SmartConnect<br>Link to MyASUS<br>TaskFirst<br>Live update<br>AI Noise Canceling | System diagnosis<br>Battery health charging<br>Fan Profile<br>Splendid<br>Tru2Life<br>Function key lock<br>WiFi SmartConnect<br>Link to MyASUS<br>TaskFirst<br>Live update<br>AI Noise Canceling | System diagnosis<br>Battery health charging<br>Fan Profile<br>Splendid<br>Tru2Life<br>Function key lock<br>WiFi SmartConnect<br>Link to MyASUS<br>TaskFirst<br>Live update<br>AI Noise Canceling | System diagnosis<br>Battery health charging<br>Fan Profile<br>Splendid<br>Tru2Life<br>Function key lock<br>WiFi SmartConnect<br>Link to MyASUS<br>TaskFirst<br>Live update<br>AI Noise Canceling |
| <b>ASUS Exclusive technology</b>   | ASUS Antimicrobial Guard   | ASUS Antimicrobial Guard   | ASUS Antimicrobial Guard Plus  | ASUS Antimicrobial Guard   |
| <b>Microsoft Office</b>            | 1-month trial for new Microsoft 365 customers. Credit card required. Office Home and Student 2021 included   | 1-month trial for new Microsoft 365 customers. Credit card required. Microsoft Office Home & Student 2021  | Microsoft Office Home & Student 2021<br>WPS Office Standard Edition (With license for 3 products)<br>Microsoft Office Home & Business 2021<br>Microsoft 365 Personal 1-year included             |  |
| <b>Military Grade</b>              | US MIL-STD 810H military-grade standard  | US MIL-STD 810H military-grade standard  | US MIL-STD 810H military-grade standard  | US MIL-STD 810H military-grade standard  |
| <b>Ecolabels &amp; Compliances</b> | Energy star 8.0<br>RoHS<br>REACH   | Energy star 8.0<br>RoHS<br>REACH   | EPEAT Silver<br>Energy star 8.0<br>RoHS<br>REACH   | EPEAT Silver<br>Energy star 8.0<br>RoHS<br>REACH   |
| <b>Security</b>                    | BIOS Booting User Password Protection<br>Trusted Platform Module (Firmware TPM)<br>McAfee®<br>Fingerprint sensor integrated with Touchpad  | BIOS setup user password<br>McAfee®<br>Fingerprint sensor integrated with Touchpad   | BIOS Booting User Password Protection<br>Trusted Platform Module (Firmware TPM)<br>McAfee®<br>Fingerprint sensor integrated with Touchpad  | BIOS Booting User Password Protection<br>Trusted Platform Module (Firmware TPM)<br>McAfee®<br>Fingerprint sensor integrated with Touchpad  |
| <b>Included in the Box</b>         | Wired optical mouse (USB)<br>Backpack<br>* Included accessories vary according to country and territory. Please check with your local ASUS retailer for details.                                 | Wired optical mouse (USB)<br>Backpack<br>* Included accessories vary according to country and territory. Please check with your local ASUS retailer for details.                                 | Wired optical mouse (USB)<br>Backpack<br>* Included accessories vary according to country and territory. Please check with your local ASUS retailer for details.                                 | Backpack<br>* Included accessories vary according to country and territory. Please check with your local ASUS retailer for details.  |
| <b>Disclaimer</b>                  | This product has only been tested for compatibility with the Windows 11 operating system, and may encounter compatibility issues if Windows 10 or older OS versions are installed.               | This product has only been tested for compatibility with the Windows 11 operating system, and may encounter compatibility issues if Windows 10 or older OS versions are installed.               | This product has only been tested for compatibility with the Windows 11 operating system, and may encounter compatibility issues if Windows 10 or older OS versions are installed.               | This product has only been tested for compatibility with the Windows 11 operating system, and may encounter compatibility issues if Windows 10 or older OS versions are installed.               |

## OLED



- Products certified by the Federal Communications Commission and Industry Canada will be distributed in the United States and Canada. Please visit the ASUS USA and ASUS Canada websites for information about locally available products.
- All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets.
- Specifications and features vary by model, and all images are illustrative. Please refer to specification pages for full details.
- PCB color and bundled software versions are subject to change without notice.
- Brand and product names mentioned are trademarks of their respective companies.
- The terms HDMI and HDMI High-Definition Multimedia Interface, HDMI trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.

\*The Windows 11 upgrade will be delivered to qualifying devices late 2021 into 2022. Timing will vary by device. Certain features require specific hardware (see aka.ms/windows11-spec).<sup>†</sup>The Windows 11 upgrade will be delivered to qualifying devices late 2021 into 2022. Timing will vary by device. Certain features require specific hardware (see aka.ms/windows11-spec).\*

IPS stands for in-plane switching, a type of LED (a form of LCD) display panel technology.

Unless otherwise stated, all performance claims are based on theoretical performance. Actual figures may vary in real-world situations.

The actual transfer speed of USB 3.0, 3.1, 3.2, and/or Type-C will vary depending on many factors including the processing speed of the host device, file attributes and other factors related to system configuration and your operating environment.

Ultrabook, Celeron, Celeron Inside, Core Inside, Intel, Intel Logo, Intel Atom, Intel Atom Inside, Intel Core, Intel Inside, Intel Inside Logo, Intel vPro, Itanium, Itanium Inside, Pentium, Pentium Inside, vPro Inside, Xeon, Xeon Phi, and Xeon Inside are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries.

Product specifications may differ from country to country. We recommend that you check with your local dealers for the specifications of the products available in your country. Colors of products may not be perfectly accurate due to variations caused by photography and monitor settings. Due to photographic variables and conditions, actual product appearance may differ from images shown on this site. Although we endeavor to present the most accurate and comprehensive information at the time of publication, we reserve the right to make changes without prior notice.

- Price may not include extra fee, including tax · shipping · handling · recycling fee.
- For pricing information, ASUS is only entitled to set a recommendation resale price. All resellers are free to set their own price as they wish.
- WiFi 6E availability may vary by country and their specific regulations. Feature only supported by Windows 11 or later.

\* Result from Mobile Mark 2014 office productivity.