

ASUS TUF Gaming F16 (2025)

OverviewTech SpecsSupport

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Model	FX608JP	FX608LM	FX608JMR	FX608JM
Operating System	Windows 11 Pro Windows 11 Home No preinstalled OS	Windows 11 Pro Windows 11 Home	Windows 11 Home Windows 11 Pro No preinstalled OS	Windows 11 Home Windows 11 Pro No preinstalled OS
Processor	13th Gen Intel® Core™ i5-13450HX Processor 2.4 GHz (20M Cache, up to 4.6 GHz, 10 cores: 6 P-cores and 4 E-cores) 13th Gen Intel® Core™ i7-13650HX Processor 2.6 GHz 24M Cache, up to 4.9 GHz, 14 cores: 6 P-cores and 8 E-cores)	Intel® Core™ Ultra 9 Processor 275HX 2.7 GHz (36MB Cache, up to 5.4 GHz, 24 cores, 24 Threads); Intel® AI Boost NPU up to 13TOPS	Intel® Core™ i7 Processor 14650HX 2.2 GHz (30MB Cache, up to 5.2 GHz, 16 cores, 24 Threads)	13th Gen Intel® Core™ i5-13450HX Processor 2.4 GHz (20M Cache, up to 4.6 GHz, 10 cores: 6 P-cores and 4 E-cores) 13th Gen Intel® Core™ i7-13650HX Processor 2.6 GHz 24M Cache, up to 4.9 GHz, 14 cores: 6 P-cores and 8 E-cores)
Graphics	NVIDIA® GeForce RTX™ 5070 Laptop GPU, 115W (100W+15W), 8GB GDDR7	NVIDIA® GeForce RTX™ 5060 Laptop GPU, 115W (100W+15W), 8GB GDDR7	NVIDIA® GeForce RTX™ 5060 Laptop GPU, 115W (100W+15W), 8GB GDDR7	NVIDIA® GeForce RTX™ 5060 Laptop GPU, 115W (100W+15W), 8GB GDDR7
Display	16-inch, 2.5K (2560 x 1600, WQXGA) 16:10 aspect ratio, IPS-level, Anti-glare display, sRGB:100.00%, Adobe:75.35%, Refresh Rate:165Hz, G-Sync, MUX Switch + NVIDIA® Advanced Optimus 16-inch, FHD+ 16:10 (1920 x 1200, WUXGA), IPS-level, Anti-glare display, sRGB:100.00%, Adobe:75.35%, Refresh Rate:165Hz, G-Sync, MUX Switch + NVIDIA® Advanced Optimus	16-inch, 2.5K (2560 x 1600, WQXGA) 16:10 aspect ratio, IPS-level, Anti-glare display, sRGB:100.00%, Adobe:75.35%, Refresh Rate:165Hz, G-Sync, MUX Switch + NVIDIA® Advanced Optimus	16-inch, FHD+ 16:10 (1920 x 1200, WUXGA), IPS-level, Anti-glare display, sRGB:100.00%, Adobe:75.35%, Refresh Rate:165Hz, G-Sync, MUX Switch + NVIDIA® Advanced Optimus 16-inch, 2.5K (2560 x 1600, WQXGA) 16:10 aspect ratio, IPS-level, Anti-glare display, sRGB:100.00%, Adobe:75.35%, Refresh Rate:165Hz, G-Sync, MUX Switch + NVIDIA® Advanced Optimus	16-inch, FHD+ 16:10 (1920 x 1200, WUXGA), IPS-level, Anti-glare display, sRGB:100.00%, Adobe:75.35%, Refresh Rate:165Hz, G-Sync, MUX Switch + NVIDIA® Advanced Optimus 16-inch, 2.5K (2560 x 1600, WQXGA) 16:10 aspect ratio, IPS-level, Anti-glare display, sRGB:100.00%, Adobe:75.35%, Refresh Rate:165Hz, G-Sync, MUX Switch + NVIDIA® Advanced Optimus
Memory	16GB DDR5-5600 SO-DIMM, the memory speed of the systems vary by CPU SPEC x 2, Max Capacity:64GB, Support dual channel memory technology 16GB DDR5-5600 SO-DIMM, the memory speed of the systems vary by CPU SPEC, Max Capacity:64GB, Support dual channel memory technology 8GB DDR5-5600 SO-DIMM, the memory speed of the systems vary by CPU SPEC x 2, Max Capacity:64GB, Support dual channel memory technology	16GB DDR5-5600 SO-DIMM, the memory speed of the systems vary by CPU SPEC x 2, Max Capacity:64GB, Support dual channel memory technology 16GB DDR5-5600 SO-DIMM, the memory speed of the systems vary by CPU SPEC, Max Capacity:64GB, Support dual channel memory technology	16GB DDR5-5600 SO-DIMM, the memory speed of the systems vary by CPU SPEC, Max Capacity:64GB, Support dual channel memory technology 16GB DDR5-5600 SO-DIMM, the memory speed of the systems vary by CPU SPEC x 2, Max Capacity:64GB, Support dual channel memory technology 8GB DDR5-5600 SO-DIMM, the memory speed of the systems vary by CPU SPEC x 2, Max Capacity:64GB, Support dual channel memory technology 8GB DDR5-5200 SO-DIMM, 8GB DDR5-5600 SO-DIMM, the memory speed of the systems vary by CPU SPEC x 2, Max Capacity:64GB, Support dual channel memory technology 16GB DDR5-5200 SO-DIMM, 16GB DDR5-5600 SO-DIMM, the memory speed of the systems vary by CPU SPEC, Max Capacity:64GB, Support dual channel memory technology	16GB DDR5-5600 SO-DIMM, the memory speed of the systems vary by CPU SPEC, Max Capacity:64GB, Support dual channel memory technology 16GB DDR5-5600 SO-DIMM, the memory speed of the systems vary by CPU SPEC x 2, Max Capacity:64GB, Support dual channel memory technology 8GB DDR5-5600 SO-DIMM, the memory speed of the systems vary by CPU SPEC x 2, Max Capacity:64GB, Support dual channel memory technology
Storage	2TB PCIe® 4.0 NVMe™ M.2 SSD 512GB PCIe® 4.0 NVMe™ M.2 SSD 1TB PCIe® 4.0 NVMe™ M.2 SSD	2TB PCIe® 4.0 NVMe™ M.2 SSD 1TB PCIe® 4.0 NVMe™ M.2 SSD	1TB PCIe® 4.0 NVMe™ M.2 SSD 2TB PCIe® 4.0 NVMe™ M.2 SSD 512GB PCIe® 4.0 NVMe™ M.2 SSD	1TB PCIe® 4.0 NVMe™ M.2 SSD 512GB PCIe® 4.0 NVMe™ M.2 SSD 2TB PCIe® 4.0 NVMe™ M.2 SSD
Expansion Slots (includes used)	2x DDR5 SO-DIMM slots 2x M.2 PCIe	2x DDR5 SO-DIMM slots 2x M.2 PCIe	2x DDR5 SO-DIMM slots 2x M.2 PCIe	2x DDR5 SO-DIMM slots 2x M.2 PCIe
I/O Ports	1x 3.5mm Combo Audio Jack 1x HDMI 2.1 FRL 3x USB 3.2 Gen 2 Type-A (data speed up to 10Gbps) 1x USB 3.2 Gen 2 Type-C	1x 3.5mm Combo Audio Jack 1x HDMI 2.1 FRL 3x USB 3.2 Gen 2 Type-A (data speed up to 10Gbps) 1x USB 3.2 Gen 2 Type-C	1x 3.5mm Combo Audio Jack 1x HDMI 2.1 FRL 3x USB 3.2 Gen 2 Type-A (data speed up to 10Gbps) 1x USB 3.2 Gen 2 Type-C	1x 3.5mm Combo Audio Jack 1x HDMI 2.1 FRL 3x USB 3.2 Gen 2 Type-A (data speed up to 10Gbps) 1x USB 3.2 Gen 2 Type-C

	with support for DisplayPort™ / power delivery (data speed up to 10Gbps) 1x RJ45 LAN port 1x Thunderbolt™ 4 with support for DisplayPort™ / G-SYNC (data speed up to 40Gbps)	with support for DisplayPort™ / power delivery / G-SYNC (data speed up to 10Gbps) 1x RJ45 LAN port 1x Thunderbolt™ 4 with support for DisplayPort™ (data speed up to 40Gbps)	with support for DisplayPort™ / power delivery (data speed up to 10Gbps) 1x RJ45 LAN port 1x Thunderbolt™ 4 with support for DisplayPort™ / G-SYNC (data speed up to 40Gbps)	with support for DisplayPort™ / power delivery (data speed up to 10Gbps) 1x RJ45 LAN port 1x Thunderbolt™ 4 with support for DisplayPort™ / G-SYNC (data speed up to 40Gbps)
Keyboard and Touchpad	Backlit Chiclet Keyboard 1-Zone RGB Touchpad With Copilot key *Copilot in Windows (in preview) is rolling out gradually within the latest update to Windows 11 in select global markets. Timing of availability varies by device and market. Learn more: https://www.microsoft.com/en-us/windows/copilot-ai-features?r=1#faq	Backlit Chiclet Keyboard 1-Zone RGB Touchpad With Copilot key *Copilot in Windows (in preview) is rolling out gradually within the latest update to Windows 11 in select global markets. Timing of availability varies by device and market. Learn more: https://www.microsoft.com/en-us/windows/copilot-ai-features?r=1#faq	Backlit Chiclet Keyboard 1-Zone RGB Touchpad With Copilot key *Copilot in Windows (in preview) is rolling out gradually within the latest update to Windows 11 in select global markets. Timing of availability varies by device and market. Learn more: https://www.microsoft.com/en-us/windows/copilot-ai-features?r=1#faq	Backlit Chiclet Keyboard 1-Zone RGB Touchpad With Copilot key *Copilot in Windows (in preview) is rolling out gradually within the latest update to Windows 11 in select global markets. Timing of availability varies by device and market. Learn more: https://www.microsoft.com/en-us/windows/copilot-ai-features?r=1#faq
Camera	1080P FHD IR Camera for Windows Hello	1080P FHD IR Camera for Windows Hello	1080P FHD IR Camera for Windows Hello	1080P FHD IR Camera for Windows Hello
Audio	Dolby Atmos AI noise-canceling technology Hi-Res certification (for headphone) Support Microsoft Cortana near field/far field (Microsoft service suspended in spring of 2023.) Built-in array microphone 2-speaker system	Dolby Atmos AI noise-canceling technology Hi-Res certification (for headphone) Support Microsoft Cortana near field/far field (Microsoft service suspended in spring of 2023.) Built-in array microphone 2-speaker system	Dolby Atmos AI noise-canceling technology Hi-Res certification (for headphone) Support Microsoft Cortana near field/far field (Microsoft service suspended in spring of 2023.) Built-in array microphone 2-speaker system	Dolby Atmos AI noise-canceling technology Hi-Res certification (for headphone) Support Microsoft Cortana near field/far field (Microsoft service suspended in spring of 2023.) Built-in array microphone 2-speaker system
Network and Communication	Wi-Fi 6E(802.11ax) (Triple band) 2*2 + Bluetooth® 5.3 Wireless Card (*Bluetooth® version may change with OS version different.)	Wi-Fi 6E(802.11ax) (Triple band) 2*2 + Bluetooth® 5.3 Wireless Card (*Bluetooth® version may change with OS version different.)	Wi-Fi 6E(802.11ax) (Triple band) 2*2 + Bluetooth® 5.3 Wireless Card (*Bluetooth® version may change with OS version different.)	Wi-Fi 6E(802.11ax) (Triple band) 2*2 + Bluetooth® 5.3 Wireless Card (*Bluetooth® version may change with OS version different.)
Battery	90WHrs, 4S1P, 4-cell Li-ion	90WHrs, 4S1P, 4-cell Li-ion	90WHrs, 4S1P, 4-cell Li-ion	90WHrs, 4S1P, 4-cell Li-ion
Power Supply	Rectangle Conn, 280W AC Adapter, Output: 20V DC, 14A, 280W, Input: 100-240V AC, 50/60Hz universal	Rectangle Conn, 280W AC Adapter, Output: 20V DC, 14A, 280W, Input: 100-240V AC, 50/60Hz universal	Rectangle Conn, 280W AC Adapter, Output: 20V DC, 14A, 280W, Input: 100-240V AC, 50/60Hz universal TYPE-C, 100W AC Adapter, Output: 20V DC, 5A, 100W, Input: 100~240V AC 50/60Hz universal	Rectangle Conn, 280W AC Adapter, Output: 20V DC, 14A, 280W, Input: 100-240V AC, 50/60Hz universal TYPE-C, 100W AC Adapter, Output: 20V DC, 5A, 100W, Input: 100~240V AC 50/60Hz universal
AURA SYNC	Yes	Yes	Yes	Yes
Weight	2.20 Kg (4.85 lbs)	2.20 Kg (4.85 lbs)	2.20 Kg (4.85 lbs)	2.20 Kg (4.85 lbs)
Dimensions (W x D x H)	35.4 x 26.9 x 1.79 ~ 2.73 cm (13.94" x 10.59" x 0.70" ~ 1.07")	35.4 x 26.9 x 1.79 ~ 2.73 cm (13.94" x 10.59" x 0.70" ~ 1.07")	35.4 x 26.9 x 1.79 ~ 2.73 cm (13.94" x 10.59" x 0.70" ~ 1.07")	35.4 x 26.9 x 1.79 ~ 2.73 cm (13.94" x 10.59" x 0.70" ~ 1.07")
Microsoft Office	1-month trial for new Microsoft 365 customers. Credit card required.	1-month trial for new Microsoft 365 customers. Credit card required.	Microsoft Office Home 2024 + Microsoft 365 Basic 1-month trial for new Microsoft 365 customers. Credit card required.	1-month trial for new Microsoft 365 customers. Credit card required. Microsoft Office Home 2024 + Microsoft 365 Basic
Xbox Game Pass	Xbox Game Pass for PC_3 months (*Terms and exclusions apply. Offer only available in eligible markets for Xbox Game Pass for PC. Eligible markets are determined at activation. Game catalog varies by region, device, and time.)	Xbox Game Pass for PC_3 months (*Terms and exclusions apply. Offer only available in eligible markets for Xbox Game Pass for PC. Eligible markets are determined at activation. Game catalog varies by region, device, and time.)	Xbox Game Pass for PC_3 months (*Terms and exclusions apply. Offer only available in eligible markets for Xbox Game Pass for PC. Eligible markets are determined at activation. Game catalog varies by region, device, and time.)	Xbox Game Pass for PC_3 months (*Terms and exclusions apply. Offer only available in eligible markets for Xbox Game Pass for PC. Eligible markets are determined at activation. Game catalog varies by region, device, and time.)
Security	BIOS Administrator Password and User Password Protection Trusted Platform Module (Firmware TPM) McAfee® 30 days free trial McAfee® 1 year	BIOS Administrator Password and User Password Protection Trusted Platform Module (Firmware TPM) McAfee® 30 days free trial McAfee® 1 year	BIOS Administrator Password and User Password Protection Trusted Platform Module (Firmware TPM) McAfee® 30 days free trial McAfee® 1 year	BIOS Administrator Password and User Password Protection Trusted Platform Module (Firmware TPM) McAfee® 1 year McAfee® 30 days free trial
Included in the Box	TUF Gaming backpack P309 TUF GAMING M3	TUF Gaming backpack P309 TUF GAMING M3	TUF Gaming backpack P309 TUF GAMING M3 TYPE-C, 100W AC Adapter, Output: 20V DC, 5A, 100W, Input:	TUF Gaming backpack P309 TUF GAMING M3 TYPE-C, 100W AC Adapter, Output: 20V DC, 5A, 100W, Input:

Neural Processor

Intel® AI Boost NPU up to
13TOPS



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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.
- The availability of the 6GHz Wi-Fi band may vary depending on the country and its specific regulations. This feature is only supported when used with the specific wireless card provided at shipment, and requires Windows 11 or later.

* Result from Mobile Mark 2014 office productivity.

***The standard Asus test environment for battery life is as follows: Windows operating system, display module with 150 nits of brightness, lighting off, and other application settings.**

Video Playback: Testing is done with Wi-Fi/Bluetooth off, Windows Power Plan set to Balanced, Taskbar Power Mode set to Battery Saver, system volume at 67%, and video at full screen, 1080p resolution.

Web Browsing: Testing is done with Wi-Fi/Bluetooth, Windows Power Plan set to Balanced, Taskbar Power Mode set to Better Battery, and using the Weblooper Top50 website in Google Chrome to play the video with a refresh time of 10 seconds.

***Factors that affect battery life include laptop configuration, power settings, and the way it is used. Battery capacity fades with its cycle count and age.**

***Quick-charging times apply when using the proper ASUS/ROG adapter included alongside the select model and the system is powered off (via the "shut down" command). In compatible scenarios, batteries can be recharged to 50% within 30 minutes under the optimal temperature range of 20-45 degrees Celsius. Charging times may vary +/- 10% due to system tolerance.**

The testing regime includes the requirements of both military-grade standards and ASUS quality tests, and varies depending on device. MIL-STD-810 testing is conducted on selected ASUS products only. Note that the MIL-STD-810 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.

The actual HDMI version of the products should be checked in the product specifications page respectively.

Unit with RJ45 port does not support "Power over Ethernet" (PoE), only support data transmission.

Please note that this Xbox Game Pass offer must be redeemed within 180 days of activating Windows. Systems that have not activated Windows within two years of their manufacture date will be unable to redeem this offer.

Due to surface-mounted components near the motherboard's M.2 slot, only single-sided SSDs are supported.

The drivers on this PC are only compatible with Windows 11 version 24H2 or later. To ensure optimal functionality and avoid any potential issues, please do not manually install an older version of the operating system.

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