

ASUS TUF Gaming F16 (2025)

OverviewTech SpecsReviewSupport



Model	FX608JMR	FX608JM	FX608JH	FX608JHR
Operating System	Windows 11 Home Windows 11 Pro No preinstalled OS	Windows 11 Home Windows 11 Pro No preinstalled OS	Windows 11 Home Windows 11 Pro No preinstalled OS	Windows 11 Home Windows 11 Pro No preinstalled OS KeeP-QS
Processor	Intel® Core™ i7 Processor 14650HX 2.2 GHz (30MB Cache, up to 5.2 GHz, 16 cores, 24 Threads) Intel® Core™ i5 Processor 14450HX 2.4 GHz (20MB Cache, up to 4.8 GHz, 10 cores, 16 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) 13th Gen Intel® Core™ i7-13700HX Processor 2.1 GHz (30M Cache, up to 5 GHz, 16 cores: 8 P-cores and 8 E-cores)	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™ i7-13700HX Processor 2.1 GHz (30M Cache, up to 5 GHz, 16 cores: 8 P-cores and 8 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™ i5 Processor 14450HX 2.4 GHz (20MB Cache, up to 4.8 GHz, 10 cores, 16 Threads) Intel® Core™ i7 Processor 14650HX 2.2 GHz (30MB Cache, up to 5.2 GHz, 16 cores, 24 Threads)
Graphics	NVIDIA® GeForce RTX™ 5060 Laptop GPU, 115W (100W+15W), 8GB GDDR7,	NVIDIA® GeForce RTX™ 5060 Laptop GPU, 115W (100W+15W), 8GB GDDR7, 115W (100W+15W)	NVIDIA® GeForce RTX™ 5050 Laptop GPU, 115W (100W+15W), 8GB GDDR7,	NVIDIA® GeForce RTX 5050 Laptop GPU, 115W (100W+15W), 8GB GDDR7,
Display	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 sRGB:100.00%, Adobe:75.35%	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, 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 DDR5-5600 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	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 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
Storage	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	512GB 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 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 slot 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-

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	 FX608JMR	 FX608JM	 FX608JH	 FX608JHR
	1x Thunderbolt™ 4 with support for DisplayPort™ / G-SYNC (data speed up to 40Gbps)	1x Thunderbolt™ 4 with support for DisplayPort™ / G-SYNC (data speed up to 40Gbps)	1x Thunderbolt™ 4 with support for DisplayPort™ / G-SYNC (data speed up to 40Gbps)	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 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	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. Microsoft Office Home 2024 + Microsoft 365 Basic	1-month trial for new Microsoft 365 customers. Credit card required. Microsoft Office Home 2024 + Microsoft 365 Basic	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® 1 year McAfee® 30 days free trial	BIOS Administrator Password and User Password Protection Trusted Platform Module (Firmware TPM) McAfee® 1 year McAfee® 30 days free trial	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 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:	TUF Gaming backpack P309 TUF GAMING M3 TYPE-C, 100W AC Adapter, Output: 20V DC, 5A, 100W, Input:	P309 TUF GAMING M3 TUF Gaming backpack TYPE-C, 100W AC Adapter, Output: 20V DC, 5A, 100W, Input:



FX608JMR



FX608JM



FX608JH



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Neural Processor

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Whole Home Mesh WiFi System

Business Network Solutions

Wired Networking

Intelligent Robots

AIoT & Industrial Solutions

Desktop AI supercomputer

Servers

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