

ASUS TUF Gaming F16 (2024)

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Model	FX607JV	FX607JU	FX607VU	FX607VJ
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 KeeP-OS	Windows 11 Home Windows 11 Pro No preinstalled OS KeeP-OS
Processor	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™ i9-13980HX Processor 2.2 GHz (36M Cache, up to 5.6 GHz, 24 cores: 8 P-cores and 16 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) 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™ i7-13620H Processor 2.4 GHz (24M Cache, up to 4.9 GHz, 10 cores: 6 P-cores and 4 E-cores) Intel® Core™ 5 Processor 210H 2.2 GHz (12MB Cache, up to 4.8 GHz, 8 cores, 12 Threads)	Intel® Core™ 5 Processor 210H 2.2 GHz (12MB Cache, up to 4.8 GHz, 8 cores, 12 Threads)
Graphics	NVIDIA® GeForce RTX™ 4060 Laptop GPU (233 AI TOPs), 2420MHz* at 130W (2370MHz Boost Clock+50MHz OC, 105W+25W Dynamic Boost), 8GB GDDR6	NVIDIA® GeForce RTX™ 4050 Laptop GPU (194 AI TOPs), 2420MHz* at 130W (2370MHz Boost Clock+50MHz OC, 105W+25W Dynamic Boost), 6GB GDDR6	NVIDIA® GeForce RTX™ 4050 Laptop GPU (194 AI TOPs), 2420MHz* at 140W (2370MHz Boost Clock+50MHz OC, 115W+25W Dynamic Boost), 6GB GDDR6	NVIDIA® GeForce RTX™ 3050 Laptop GPU, 2195Mhz at 65W (2145MHz Boost Clock+50MHz OC, 50W+15W Dynamic Boost), 6GB GDDR6
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, FHD+ 16:10 (1920 x 1200, WUXGA), IPS-level, Anti-glare display, Refresh Rate:144Hz, G-Sync, MUX Switch + NVIDIA® Advanced Optimus 16-inch, QHD+ 16:10 (2560 x 1600, WQXGA), 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, QHD+ 16:10 (2560 x 1600, WQXGA), 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, Refresh Rate:144Hz, G-Sync, MUX Switch + NVIDIA® Advanced Optimus	16-inch, FHD+ 16:10 (1920 x 1200, WUXGA), IPS-level, Anti-glare display, sRGB:100%, Refresh Rate:165Hz, Response Time:3ms, G-Sync, MUX Switch + NVIDIA® Advanced Optimus 16-inch, FHD+ 16:10 (1920 x 1200, WUXGA), Value IPS-level, Anti-glare display, Refresh Rate:144Hz, Response Time:7ms, G-Sync, MUX Switch + NVIDIA® Advanced Optimus	16-inch, FHD+ 16:10 (1920 x 1200, WUXGA), IPS-level, Anti-glare display, Refresh Rate:144Hz, Response Time:3ms, MUX Switch + NVIDIA® Advanced Optimus 16-inch, FHD+ 16:10 (1920 x 1200, WUXGA), IPS-level, Anti-glare display, sRGB:100%, Refresh Rate:165Hz, Response Time:3ms, 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 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, 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, 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 8GB DDR5-5600 SO-DIMM, the memory speed of the systems vary by CPU SPEC, Max Capacity:64GB, Support dual channel memory technology	16GB DDR4-3200 SO-DIMM, Max Capacity:64GB, Support dual channel memory technology 8GB DDR4-3200 SO-DIMM x 2, Max Capacity:64GB, Support dual channel memory technology 16GB DDR4-3200 SO-DIMM x 2, Max Capacity:64GB, Support dual channel memory technology 8GB DDR4-3200 SO-DIMM, Max Capacity:64GB, Support dual channel memory technology
Storage	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	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 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 DDR4 SO-DIMM slots 2x M.2 PCIe



	 FX607JV	 FX607JU	 FX607VU	 FX607VJ
	2x USB 3.2 Gen 1 Type-A (data speed up to 5Gbps) 1x USB 3.2 Gen 2 Type-C 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)	2x USB 3.2 Gen 1 Type-A (data speed up to 5Gbps) 1x USB 3.2 Gen 2 Type-C 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)	2x USB 3.2 Gen 1 Type-A (data speed up to 5Gbps) 1x USB 3.2 Gen 2 Type-C 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)	2x USB 3.2 Gen 1 Type-A (data speed up to 5Gbps) 1x USB 3.2 Gen 2 Type-C with support for DisplayPort™ / power delivery (data speed up to 10Gbps) 1x RJ45 LAN port
Keyboard and Touchpad	Backlit Chiclet Keyboard 1-Zone RGB Touchpad	Backlit Chiclet Keyboard 1-Zone RGB 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
Camera	720P HD camera	720P HD camera	720P HD camera	720P HD camera
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 6(802.11ax) (Dual band) 2*2 + Bluetooth® 5.2 Wireless Card (*Bluetooth® version may change with OS version different.)	Wi-Fi 6(802.11ax) (Dual band) 2*2 + Bluetooth® 5.2 Wireless Card (*Bluetooth® version may change with OS version different.)	Wi-Fi 6(802.11ax) (Dual band) 2*2 + Bluetooth® 5.3 Wireless Card (*Bluetooth® version may change with OS version different.)	Wi-Fi 6(802.11ax) (Dual 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	56WHrs, 4S1P, 4-cell Li-ion	56WHrs, 4S1P, 4-cell Li-ion
Power Supply	ø6.0, 240W AC Adapter, Output: 20V DC, 12A, 240W, Input: 100~240C AC 50/60Hz universal TYPE-C, 100W AC Adapter, Output: 20V DC, 5A, 100W, Input: 100~240V AC 50/60Hz universal	ø6.0, 240W AC Adapter, Output: 20V DC, 12A, 240W, Input: 100~240C AC 50/60Hz universal	ø6.0, 240W AC Adapter, Output: 20V DC, 12A, 240W, Input: 100~240C AC 50/60Hz universal	ø6.0, 150W AC Adapter, Output: 20V DC, 7.5A, 150W, Input: 100~240V AC, 50/60Hz universal
Weight	2.27 Kg (5.00 lbs)	2.27 Kg (5.00 lbs)	2.20 Kg (4.85 lbs)	2.20 Kg (4.85 lbs)
Dimensions (W x D x H)	35.5 x 25.2 x 2.21 ~ 2.82 cm (13.98" x 9.92" x 0.87" ~ 1.11")	35.5 x 25.2 x 2.21 ~ 2.82 cm (13.98" x 9.92" x 0.87" ~ 1.11")	35.4 x 25.1 x 2.21 ~ 2.67 cm (13.94" x 9.88" x 0.87" ~ 1.05")	35.4 x 25.1 x 2.21 ~ 2.67 cm (13.94" x 9.88" x 0.87" ~ 1.05")
Microsoft Office	1-month trial for new Microsoft 365 customers. Credit card required.	1-month trial for new Microsoft 365 customers. Credit card required. Office Home and Student	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
Ecolabels & Compliances	ENERGY STAR® EPEAT Bronze	ENERGY STAR® EPEAT Bronze	ENERGY STAR®	ENERGY STAR®
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.)

