

ASUS TUF Gaming A16 Advantage Edition (2023)

Overview Tech Specs Review Support

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Model	FA617NS	FA617XS	FA617XT
Operating System	Windows 11 Home No preinstalled OS	No preinstalled OS Windows 11 Home Windows 11 Pro	Windows 11 Home Windows 11 Pro
Processor	AMD Ryzen™ 7 7735HS Mobile Processor (8-core/16-thread, 16MB L3 cache, up to 4.7 GHz max boost)	AMD Ryzen™ 9 7940HS Mobile Processor (8-core/16-thread, 16MB L3 cache, up to 5.2 GHz max boost)	AMD Ryzen™ 9 7940HS Mobile Processor (8-core/16-thread, 16MB L3 cache, up to 5.2 GHz max boost)
Graphics	AMD Radeon™ RX 7600S, up to 95W(SmartShift), 8GB GDDR6	AMD Radeon™ RX 7600S, up to 95W(SmartShift), 8GB GDDR6	AMD Radeon™ RX 7700S, up to 120W(SmartShift), 8GB GDDR6
Display	16-inch, FHD+ 16:10 (1920 x 1200, WUXGA), IPS-level, Anti-glare display, sRGB:100%, Adobe:75.35%, Refresh Rate:165Hz, Response Time:7ms, FreeSync Premium, MUX Switch + AMD Smart Access Graphics 16-inch, QHD+ 16:10 (2560 x 1600, WQXGA), IPS-level, Anti-glare display, DCI-P3:100%, Refresh Rate:240Hz, Response Time:3ms, FreeSync Premium, MUX Switch + AMD Smart Access Graphics 16-inch, QHD+ 16:10 (2560 x 1600, WQXGA), IPS-level, Anti-glare display, Refresh Rate:240Hz, Response Time:3ms, FreeSync Premium, MUX Switch + AMD Smart Access Graphics	16-inch, FHD+ 16:10 (1920 x 1200, WUXGA), IPS-level, Anti-glare display, sRGB:100%, Adobe:75.35%, Refresh Rate:165Hz, Response Time:7ms, FreeSync Premium, MUX Switch + AMD Smart Access Graphics 16-inch, QHD+ 16:10 (2560 x 1600, WQXGA), IPS-level, Anti-glare display, DCI-P3:100%, Refresh Rate:240Hz, Response Time:3ms, FreeSync Premium, MUX Switch + AMD Smart Access Graphics	16-inch, QHD+ 16:10 (2560 x 1600, WQXGA), IPS-level, Anti-glare display, DCI-P3:100%, Refresh Rate:240Hz, Response Time:3ms, FreeSync Premium, MUX Switch + AMD Smart Access Graphics
Memory	8GB DDR5-4800 SO-DIMM x 2, Max Capacity:32GB 16GB DDR5-4800 SO-DIMM, Max Capacity:32GB 8GB DDR5-4800 SO-DIMM, Max Capacity:32GB	8GB DDR5-4800 SO-DIMM x 2, Max Capacity:32GB 16GB DDR5-4800 SO-DIMM, Max Capacity:32GB 16GB DDR5-4800 SO-DIMM x 2, Max Capacity:32GB	8GB DDR5-4800 SO-DIMM x 2, Max Capacity:32GB 16GB DDR5-4800 SO-DIMM x 2, Max Capacity:32GB
Storage	512GB PCIe® 4.0 NVMe™ M.2 SSD 1TB 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	1TB PCIe® 4.0 NVMe™ M.2 SSD 2TB PCIe® 4.0 NVMe™ M.2 SSD
I/O Ports	1x 3.5mm Combo Audio Jack 1x HDMI 2.1 FRL 2x USB 3.2 Gen 1 Type-A 1x USB 3.2 Gen 2 Type-C support DisplayPort™ 1x USB 3.2 Gen 2 Type-C support DisplayPort™ / power delivery 1x RJ45 LAN port	1x 3.5mm Combo Audio Jack 1x HDMI 2.1 FRL 2x USB 3.2 Gen 1 Type-A 1x USB 3.2 Gen 2 Type-C support DisplayPort™ / power delivery 1x RJ45 LAN port 1x Type C USB 4 support DisplayPort™	1x 3.5mm Combo Audio Jack 1x HDMI 2.1 FRL 2x USB 3.2 Gen 1 Type-A 1x USB 3.2 Gen 2 Type-C support DisplayPort™ / power delivery 1x RJ45 LAN port 1x Type C USB 4 support DisplayPort™

Keyboard and Touchpad	Backlit Chiclet Keyboard Single Light Touchpad	Backlit Chiclet Keyboard Single Light Touchpad	Backlit Chiclet Keyboard Single Light Touchpad
Camera	720P HD camera	720P HD camera	720P HD camera
Audio	Dolby Atmos AI noise-canceling technology Hi-Res certification Built-in array microphone 2-speaker system	Dolby Atmos AI noise-canceling technology Hi-Res certification Built-in array microphone 2-speaker system	Dolby Atmos AI noise-canceling technology Hi-Res certification Built-in array microphone 2-speaker system
Network and Communication	Wi-Fi 6(802.11ax) (Dual band) 2*2 + Bluetooth® 5.2 (*Bluetooth® version may change with OS version different.)	Wi-Fi 6(802.11ax) (Dual band) 2*2 + Bluetooth® 5.2 (*Bluetooth® version may change with OS version different.)	Wi-Fi 6(802.11ax) (Dual band) 2*2 + Bluetooth® 5.2 (*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
Power Supply	ø6.0, 240W AC Adapter, Output: 20V DC, 12A, 240W, Input: 100~240V 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: 100~240V AC 50/60Hz universal TYPE-C, 100W AC Adapter, Output: 20V DC, 5A, 100W, Input: 100~240V AC 50/60Hz universal	ø6.0, 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
Weight	2.20 Kg (4.85 lbs)	2.20 Kg (4.85 lbs)	2.20 Kg (4.85 lbs)
Dimensions (W x D x H)	35.5 x 25.2 x 2.21 ~ 2.68 cm (13.98" x 9.92" x 0.87" ~ 1.06")	35.5 x 25.2 x 2.21 ~ 2.68 cm (13.98" x 9.92" x 0.87" ~ 1.06")	35.5 x 25.2 x 2.21 ~ 2.68 cm (13.98" x 9.92" x 0.87" ~ 1.06")
Microsoft Office	Office Home and Student	Office Home and Student	
Xbox Game Pass	Xbox Game Pass Ultimate_3 months (*Terms and exclusions apply. Offer only available in eligible markets for Xbox Game Pass Ultimate. 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 Ultimate_3 months (*Terms and exclusions apply. Offer only available in eligible markets for Xbox Game Pass Ultimate. 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 Ultimate_3 months (*Terms and exclusions apply. Offer only available in eligible markets for Xbox Game Pass Ultimate. Eligible markets are determined at activation. Game catalog varies by region, device, and time.)
Security	Kensington Security Slot™	Kensington Security Slot™	Kensington Security Slot™
Included in the Box	TUF backpack P309 TUF GAMING M3 TYPE-C, 100W AC Adapter, Output: 20V DC, 5A, 100W, Input: 100~240V AC 50/60Hz universal *Included accessories vary according to country and territory. Please check with your local ASUS retailer for details	TUF backpack P309 TUF GAMING M3 TYPE-C, 100W AC Adapter, Output: 20V DC, 5A, 100W, Input: 100~240V AC 50/60Hz universal *Included accessories vary according to country and territory. Please check with your local ASUS retailer for details	TUF backpack P309 TUF GAMING M3 TYPE-C, 100W AC Adapter, Output: 20V DC, 5A, 100W, Input: 100~240V AC 50/60Hz universal *Included accessories vary according to country and territory. Please check with your local ASUS retailer for details