

## 2021 ASUS TUF Gaming F15

Overview Tech Specs Review Support

Viewing 1 - 4 of 4



Model	FX506HC	FX506HM	FX506HE	FX506HF
<b>Operating System</b>	WITHOUT OS Windows 11 Home Windows 10 Home - ASUS recommends Windows 11 Pro for business Windows 11 Pro Windows 10 Pro - ASUS recommends Windows 11 Pro for business Device comes with Windows 10 and a free Windows 11 upgrade or may be preloaded with Windows 11.	Windows 10 Home - ASUS recommends Windows 11 Pro for business WITHOUT OS Windows 11 Home Windows 10 Pro - ASUS recommends Windows 11 Pro for business Windows 11 Pro Device comes with Windows 10 and a free Windows 11 upgrade or may be preloaded with Windows 11.	Windows 11 Home Windows 10 Home - ASUS recommends Windows 11 Pro for business Windows 10 Pro - ASUS recommends Windows 11 Pro for business WITHOUT OS Windows 11 Pro Device comes with Windows 10 and a free Windows 11 upgrade or may be preloaded with Windows 11.	Windows 11 Home Windows 11 Pro No preinstalled OS
<b>Processor</b>	Intel® Core™ i5-11400H Processor 2.7 GHz (12M Cache, up to 4.5 GHz, 6 Cores) Intel® Core™ i7-11600H Processor 2.9 GHz (18M Cache, up to 4.6 GHz, 6 Cores) Intel® Core™ i7-11800H Processor 2.3 GHz (24M Cache, up to 4.6 GHz, 8 Cores) Intel® Core™ i5-11260H Processor 2.9 GHz (12M Cache, up to 4.4 GHz, 6 Cores)	Intel® Core™ i7-11800H Processor 2.3 GHz (24M Cache, up to 4.6 GHz, 8 Cores) Intel® Core™ i5-11400H Processor 2.7 GHz (12M Cache, up to 4.5 GHz, 6 Cores) Intel® Core™ i9-11900H Processor 2.5 GHz (24M Cache, up to 4.9 GHz, 8 Cores) Intel® Core™ i7-11600H Processor 2.9 GHz (18M Cache, up to 4.6 GHz, 6 Cores)	Intel® Core™ i7-11800H Processor 2.3 GHz (24M Cache, up to 4.6 GHz, 8 Cores) Intel® Core™ i5-11400H Processor 2.7 GHz (12M Cache, up to 4.5 GHz, 6 Cores) Intel® Core™ i9-11900H Processor 2.5 GHz (24M Cache, up to 4.9 GHz, 8 Cores) Intel® Core™ i7-11600H Processor 2.9 GHz (18M Cache, up to 4.6 GHz, 6 Cores)	Intel® Core™ i5-11400H Processor 2.7 GHz (12M Cache, up to 4.5 GHz, 6 Cores) Intel® Core™ i5-11260H Processor 2.9 GHz (12M Cache, up to 4.4 GHz, 6 Cores)
<b>Graphics</b>	NVIDIA® GeForce RTX™ 3050 Laptop GPU, Up to 1600MHz at 60W (75W with Dynamic Boost), 4GB GDDR6	NVIDIA® GeForce RTX™ 3060 Laptop GPU, Up to 1630MHz at 90W (95W with Dynamic Boost), 6GB GDDR6	NVIDIA® GeForce RTX™ 3050 Ti Laptop GPU, Up to 1585MHz at 60W (75W with Dynamic Boost), 4GB GDDR6	NVIDIA® GeForce RTX™ 2050 Laptop GPU, Up to 1625MHz at 55W (TGP 70W with Dynamic Boost) *Vary by scenario, 4GB GDDR6
<b>Display</b>	15.6-inch, FHD (1920 x 1080) 16:9, Value IPS-level, Anti-glare display, sRGB:62.5%, Adobe:47.34%, Refresh Rate:144Hz, Adaptive-Sync, Optimus 15.6-inch, FHD (1920 x 1080) 16:9, Value IPS-level, Anti-glare display, sRGB:62.5%, Adobe:47.34%, Refresh Rate:60Hz, Optimus	15.6-inch, FHD (1920 x 1080) 16:9, Value IPS-level, Anti-glare display, sRGB:62.5%, Adobe:47.34%, Refresh Rate:144Hz, Adaptive-Sync, Optimus 15.6-inch, FHD (1920 x 1080) 16:9, IPS-level, Anti-glare display, sRGB:100.00%, Adobe:75.35%, Refresh Rate:240Hz, Adaptive-Sync, Optimus	15.6-inch, FHD (1920 x 1080) 16:9, Value IPS-level, Anti-glare display, sRGB:62.5%, Adobe:47.34%, Refresh Rate:144Hz, Adaptive-Sync, Optimus 15.6-inch, FHD (1920 x 1080) 16:9, Value IPS-level, Anti-glare display, sRGB:62.5%, Adobe:47.34%, Refresh Rate:60Hz, Optimus	15.6-inch, FHD (1920 x 1080) 16:9, Value IPS-level, Anti-glare display, sRGB:62.5%, Adobe:47.34%, Refresh Rate:144Hz, Adaptive-Sync, Optimus
<b>Memory</b>	8GB DDR4-3200 SO-DIMM, Max Capacity:32GB 8GB DDR4-3200 SO-DIMM x 2, Max Capacity:32GB 16GB DDR4-3200 SO-DIMM, Max Capacity:32GB 16GB DDR4-3200 SO-DIMM x 2, Max Capacity:32GB	8GB DDR4-3200 SO-DIMM x 2, Max Capacity:32GB 16GB DDR4-3200 SO-DIMM, Max Capacity:32GB 8GB DDR4-3200 SO-DIMM, Max Capacity:32GB 16GB DDR4-3200 SO-DIMM x 2, Max Capacity:32GB	8GB DDR4-3200 SO-DIMM x 2, Max Capacity:32GB 8GB DDR4-3200 SO-DIMM, Max Capacity:32GB 16GB DDR4-3200 SO-DIMM x 2, Max Capacity:32GB 16GB DDR4-3200 SO-DIMM, Max Capacity:32GB , 16GB DDR4-3200 SO-DIMM x 2, Max Capacity:32GB	8GB DDR4-3200 SO-DIMM, Max Capacity:32GB 16GB DDR4-3200 SO-DIMM x 2, Max Capacity:32GB 8GB DDR4-3200 SO-DIMM x 2, Max Capacity:32GB 16GB DDR4-3200 SO-DIMM, Max Capacity:32GB
<b>Storage</b>	512GB PCIe® 3.0 NVMe™ M.2 SSD 1TB PCIe® 3.0 NVMe™ M.2 SSD	512GB PCIe® 3.0 NVMe™ M.2 SSD 1TB PCIe® 3.0 NVMe™ M.2 SSD	512GB PCIe® 3.0 NVMe™ M.2 SSD 1TB PCIe® 3.0 NVMe™ M.2 SSD	512GB PCIe® 3.0 NVMe™ M.2 SSD 1TB PCIe® 3.0 NVMe™ M.2 SSD
<b>I/O Ports</b>	1x 3.5mm Combo Audio Jack 1x HDMI 2.0b 3x USB 3.2 Gen 1 Type-A 1x RJ45 LAN port 1x Thunderbolt™ 4 support DisplayPort™ 1x USB 3.2 Gen 2 Type-C support DisplayPort™ (Thunderbolt 4 not supported on FX506HCB/HEB)	1x 3.5mm Combo Audio Jack 1x HDMI 2.0b 3x USB 3.2 Gen 1 Type-A 1x RJ45 LAN port 1x Thunderbolt™ 4 support DisplayPort™	1x 3.5mm Combo Audio Jack 1x HDMI 2.0b 3x USB 3.2 Gen 1 Type-A 1x RJ45 LAN port 1x USB 3.2 Gen 2 Type-C support DisplayPort™ 1x Thunderbolt™ 4 support DisplayPort™ (Thunderbolt 4 not supported on FX506HCB/HEB)	1x 3.5mm Combo Audio Jack 1x HDMI 2.0b 3x USB 3.2 Gen 1 Type-A 1x RJ45 LAN port 1x Thunderbolt™ 4 support DisplayPort™
<b>Keyboard and Touchpad</b>	Backlit Chiclet Keyboard 1-Zone RGB Touchpad	Backlit Chiclet Keyboard 1-Zone RGB Touchpad	Backlit Chiclet Keyboard 1-Zone RGB Touchpad	Backlit Chiclet Keyboard 1-Zone RGB Touchpad
<b>Camera</b>	720P HD camera	720P HD camera	720P HD camera	720P HD camera
<b>Audio</b>	DTS software AI noise-canceling	DTS software AI noise-canceling	DTS software AI noise-canceling	DTS software AI noise-canceling

	technology Support Microsoft Cortana near field/Far field Built-in array microphone 2-speaker system	technology Support Microsoft Cortana near field/Far field Built-in array microphone 2-speaker system	technology Support Microsoft Cortana near field/Far field Built-in array microphone 2-speaker system	technology Support Microsoft Cortana near field/Far field Built-in array microphone 2-speaker system
<b>Network and Communication</b>	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.)	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.)
<b>Battery</b>	48WHrs, 3S1P, 3-cell Li-ion 90WHrs, 4S1P, 4-cell Li-ion	90WHrs, 4S1P, 4-cell Li-ion	48WHrs, 3S1P, 3-cell Li-ion 90WHrs, 4S1P, 4-cell Li-ion	48WHrs, 3S1P, 3-cell Li-ion
<b>Power Supply</b>	ø6.0, 180W AC Adapter, Output: 20V DC, 9A, 180W, Input: 100~240V AC, 50/60Hz universal	ø6.0, 200W AC Adapter, Output: 20V DC, 10A, 200W, Input: 100-240V AC, 50/60Hz universal	ø6.0, 180W AC Adapter, Output: 20V DC, 9A, 180W, Input: 100~240V AC, 50/60Hz universal	ø6.0, 150W AC Adapter, Output: 20V DC, 7.5A, 150W, Input: 100~240V AC, 50/60Hz universal
<b>Weight</b>	2.30 Kg (5.07 lbs) 2.30 Kg ( lbs)	2.30 Kg (5.07 lbs)	2.30 Kg (5.07 lbs) 2.30 Kg ( lbs)	2.30 Kg (5.07 lbs) 2.30 Kg ( lbs)
<b>Dimensions (W x D x H)</b>	35.9 x 25.6 x 2.28 ~ 2.43 cm (14.13" x 10.08" x 0.90" ~ 0.96") 35.9 x 25.6 x 2.28 ~ 2.45 cm (14.13" x 10.08" x 0.90" ~ 0.96")	35.9 x 25.6 x 2.28 ~ 2.43 cm (14.13" x 10.08" x 0.90" ~ 0.96") 35.9 x 25.6 x 2.28 ~ 2.45 cm (14.13" x 10.08" x 0.90" ~ 0.96")	35.9 x 25.6 x 2.28 ~ 2.43 cm (14.13" x 10.08" x 0.90" ~ 0.96") 35.9 x 25.6 x 2.28 ~ 2.45 cm (14.13" x 10.08" x 0.90" ~ 0.96")	35.9 x 25.6 x 2.28 ~ 2.45 cm (14.13" x 10.08" x 0.90" ~ 0.96")
<b>Microsoft Office</b>	1-month trial for new Microsoft 365 customers. Credit card required. Office Home and Student 2019 included Office Home and Student WPS Office 30 days trial version WPS Office 2 Standard Edition (With license for 3 products)	1-month trial for new Microsoft 365 customers. Credit card required. Office Home and Student WPS Office 30 days trial version Office Home and Student 2019 included	1-month trial for new Microsoft 365 customers. Credit card required. Office Home and Student WPS Office 30 days trial version	WPS Office 2 Standard Edition (With license for 3 products) Office Home and Student
<b>Xbox Game Pass</b>	Xbox Game Pass Ultimate_1 month (*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 for PC_1 month (*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 Ultimate_1 month (*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_1 month (*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_1 month (*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_1 month (*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 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 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.)
<b>Security</b>	BIOS Administrator Password and User Password Protection Kensington Security Slot™ Trusted Platform Module (Firmware TPM)	BIOS Administrator Password and User Password Protection Kensington Security Slot™ Trusted Platform Module (Firmware TPM)	BIOS Administrator Password and User Password Protection Kensington Security Slot™ Trusted Platform Module (Firmware TPM)	BIOS Administrator Password and User Password Protection Kensington Nano Security Slot™ Trusted Platform Module (Firmware TPM)
<b>Included in the Box</b>	TUF Gaming backpack P304 TUF GAMING M5 V2	TUF Gaming backpack P304 TUF GAMING M5 V2 Marketing Giveaway (TUF Sticker)	TUF Gaming backpack P304 TUF GAMING M5 V2	TUF Gaming backpack P304 TUF GAMING M5 V2
<b>Note</b>	<sup>1</sup> Upgrade timing may vary by device. Features and app availability may vary by region. Certain features require specific hardware (see <a href="https://www.microsoft.com/en-us/windows/windows-11-specifications">https://www.microsoft.com/en-us/windows/windows-11-specifications</a> ).	<sup>1</sup> Upgrade timing may vary by device. Features and app availability may vary by region. Certain features require specific hardware (see <a href="https://www.microsoft.com/en-us/windows/windows-11-specifications">https://www.microsoft.com/en-us/windows/windows-11-specifications</a> ).	<sup>1</sup> Upgrade timing may vary by device. Features and app availability may vary by region. Certain features require specific hardware (see <a href="https://www.microsoft.com/en-us/windows/windows-11-specifications">https://www.microsoft.com/en-us/windows/windows-11-specifications</a> ).	