ROG | ProArt | ASUS IoT

Gaming   Business

Mobile / Handhelds   Laptops   Displays / Desktops   Motherboards / Components   Networking / IoT / Servers   Accessories   Support

2021 ASUS TUF Gaming F17

Overview   Tech Specs   Review   Support

Model	FX706HC	TUF706HE	FX706HM	FX706HF
Operating System	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 WITHOUT OS Device comes with Windows 10 and a free Windows 11 upgrade or may be preloaded with Windows 11.	Windows 11 Home WITHOUT OS Windows 10 Home - ASUS recommends Windows 11 Pro for business 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 Windows 11 Home 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 Pro No preinstalled OS Windows 11 Home Device comes with Windows 10 and a free Windows 11 upgrade or may be preloaded with Windows 11.
Processor	Intel® Core™ i5-11400H Processor 2.7 GHz (12M Cache, up to 4.5 GHz, 6 Cores) Intel® Core™ i7-11800H Processor 2.3 GHz (24M Cache, up to 4.6 GHz, 8 Cores) Intel® Core™ i7-11600H Processor 2.9 GHz (18M Cache, up to 4.6 GHz, 6 Cores) Intel® Core™ i5-11260H Processor 2.9 GHz (12M Cache, up to 4.4 GHz, 6 Cores)	Intel® Core™ i5-11400H Processor 2.7 GHz (12M Cache, up to 4.5 GHz, 6 Cores) Intel® Core™ i7-11800H Processor 2.3 GHz (24M Cache, up to 4.6 GHz, 8 Cores) Intel® Core™ i9-11900H Processor 2.5 GHz (24M Cache, up to 4.9 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™ i9-11900H Processor 2.5 GHz (24M Cache, up to 4.9 GHz, 8 Cores) Intel® Core™ i5-11400H Processor 2.7 GHz (12M Cache, up to 4.5 GHz, 6 Cores)	Intel® Core™ i5-11400H Processor 2.7 GHz (12M Cache, up to 4.5 GHz, 6 Cores)
Graphics	NVIDIA® GeForce RTX™ 3050 Laptop GPU, Up to 1600MHz at 60W (75W with Dynamic Boost), 4GB GDDR6	NVIDIA® GeForce RTX™ 3050 Ti Laptop GPU, Up to 1585MHz 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™ 2050 Laptop GPU, Up to 1625MHz at 55W (TGP 70W with Dynamic Boost) *Vary by scenario, 4GB GDDR6
Display	17.3-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	17.3-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	17.3-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 17.3-inch, FHD (1920 x 1080) 16:9, IPS-level, Anti-glare display, sRGB:100%, Adobe:75.35%, Refresh Rate:300Hz, Adaptive-Sync, Optimus	17.3-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
Memory	8GB DDR4-3200 SO-DIMM x 2, Max Capacity:32GB 8GB DDR4-3200 SO-DIMM, 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 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 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 8GB DDR4-3200 SO-DIMM, Max Capacity:32GB 16GB DDR4-3200 SO-DIMM, Max Capacity:32GB
Storage	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	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
I/O Ports	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™ (Device features only one Type-C port. Thunderbolt™ 4 support might vary depending on model.)	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™ (Device features only one Type-C port. Thunderbolt™ 4 support might vary depending on model.)	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 Thunderbolt™ 4 support DisplayPort™
Keyboard and Touchpad	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
Camera	720P HD camera	720P HD camera	720P HD camera	720P HD camera
Audio	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 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
Network and Communication	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.)
Battery	48WHrs, 3S1P, 3-cell Li-ion 90WHrs, 4S1P, 4-cell Li-ion	48WHrs, 3S1P, 3-cell Li-ion 90WHrs, 4S1P, 4-cell Li-ion	90WHrs, 4S1P, 4-cell Li-ion	48WHrs, 3S1P, 3-cell Li-ion
Power Supply	ø6.0, 180W AC Adapter, Output: 20V DC, 9A, 180W, 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, 200W AC Adapter, Output: 20V DC, 10A, 200W, 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
Weight	2.60 Kg (5.73 lbs)	2.60 Kg (5.73 lbs)	2.60 Kg (5.73 lbs)	2.60 Kg (5.73 lbs)
Dimensions (W x D x H)	39.9 x 26.9 x 2.21 ~ 2.39 cm (15.71" x 10.59" x 0.87" ~ 0.94") 39.9 x 26.9 x 2.33 ~ 2.48 cm (15.71" x 10.59" x 0.92" ~ 0.98")	39.9 x 26.9 x 2.21 ~ 2.39 cm (15.71" x 10.59" x 0.87" ~ 0.94") 39.9 x 26.9 x 2.33 ~ 2.48 cm (15.71" x 10.59" x 0.92" ~ 0.98")	39.9 x 26.9 x 2.21 ~ 2.39 cm (15.71" x 10.59" x 0.87" ~ 0.94") 39.9 x 26.9 x 2.33 ~ 2.48 cm (15.71" x 10.59" x 0.92" ~ 0.98")	39.9 x 26.9 x 2.33 ~ 2.48 cm (15.71" x 10.59" x 0.92" ~ 0.98")
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 WPS Office 30 days trial version	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
Xbox Game Pass	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 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 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	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)
Included in the Box	TUF Gaming backpack P304 TUF GAMING M5 V2 Marketing Giveaway (TUF Sticker) *Included accessories vary according to country and territory. Please check with your local ASUS retailer for details	TUF Gaming backpack P304 TUF GAMING M5 V2 Marketing Giveaway (TUF Sticker) *Included accessories vary according to country and territory. Please check with your local ASUS retailer for details	TUF Gaming backpack Marketing Giveaway (TX Sticker) P304 TUF GAMING M5 V2 Marketing Giveaway (TUF Sticker) *Included accessories vary according to country and territory. Please check with your local ASUS retailer for details	TUF Gaming backpack P304 TUF GAMING M5 V2
Note	[1]Upgrade timing may vary by device. Features and app availability may vary by region. Certain features require specific hardware (see https://www.microsoft.com/en-us/windows/windows-11-specifications).	[1]Upgrade timing may vary by device. Features and app availability may vary by region. Certain features require specific hardware (see https://www.microsoft.com/en-us/windows/windows-11-specifications).	[1]Upgrade timing may vary by device. Features and app availability may vary by region. Certain features require specific hardware (see https://www.microsoft.com/en-us/windows/windows-11-specifications).	[1]Upgrade timing may vary by device. Features and app availability may vary by region. Certain features require specific hardware (see https://www.microsoft.com/en-us/windows/windows-11-specifications).

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

- Products certified by the Federal Communications Commission and Industry Canada will be distributed in the United States and Canada. Please visit the ASUS USA and ASUS Canada websites for information about locally available products.
- All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets.
- Specifications and features vary by model, and all images are illustrative. Please refer to specification pages for full details.
- PCB color and bundled software versions are subject to change without notice.
- Brand and product names mentioned are trademarks of their respective companies.
- The terms HDMI and HDMI High-Definition Multimedia Interface, HDMI trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.

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.

* 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.

Shop and Learn

Mobile / Handhelds	Workstations	Wired Networking
Phones	Accessories	Intelligent Robots
Accessories	**Motherboards / Components**	AIoT & Industrial Solutions
Laptops	Motherboards	Servers
For Home	Graphics Cards	Smart Home
For Work	Gaming Cases	**Accessories**
For Creators	Cooling	Keyboards
For Students	Power Supply Units	Mice and Mouse Pads
For Gaming	Sound Cards	Headsets and Audio
Accessories	Optical Drives	Streaming Kits
Displays / Desktops	Data Storage	Apparel Bags and Gear
Monitors	External Graphics Docks	Cases and Protection
Projectors	**Networking / IoT / Servers**	Adapters and Chargers
All-in-One PCs	WiFi 7	Docks Dongles and Cable
Tower PCs	WiFi 6	Power Banks
Gaming Tower PCs	WiFi Routers	Controller
Mini PCs	Whole Home Mesh WiFi System	Gimbal
	Business Network Solutions	

Learn More

Asus Design Center
ASUSPRO
Automotive Solutions
AVC Licensing Notice
ASUS Blog

Support

Check Repair Status
Find Service Locations
Product Registration
Email Us
Call Us
Security Advisory
ASUS Support Videos
MyASUS

About Us

About ASUS
News
Investor Relations
About CSR for global
Press Room
ASUSTOR Inc.
ASUS Cloud Corporation
UniMax Electronics Inc.

Global / English