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## ASUS TUF Gaming F15 (2022)

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### Operating System

Windows 11 Home

Windows 11 Pro

No preinstalled OS

### Processor

12th Gen Intel® Core™ i7-12700H Processor 2.3 GHz (24M Cache, up to 4.7 GHz, 14 cores: 6 P-cores and 8 E-cores)

12th Gen Intel® Core™ i5-12500H Processor 2.5 GHz (18M Cache, up to 4.5 GHz, 12

cores: 4 P-cores and 8 E-cores)

## Graphics

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NVIDIA® GeForce RTX™ 3070 Laptop GPU

1460MHz\* at 140W (1410MHz Boost Clock+50MHz OC, 115W+25W Dynamic Boost)

NVIDIA® GeForce RTX™ 3060 Laptop GPU

1752MHz\* at 140W (1702MHz Boost Clock+50MHz OC, 115W+25W Dynamic Boost)

NVIDIA® GeForce RTX™ 3050 Ti Laptop GPU

1745MHz\* at 95W (1695MHz Boost Clock+50MHz OC, 80W+15W Dynamic Boost)

NVIDIA® GeForce RTX™ 3050 Laptop GPU

1790MHz\* at 95W (1740MHz Boost Clock+50MHz OC, 80W+15W Dynamic Boost)

## Display

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15.6-inch, WQHD (2560 x 1440) 16:9, anti-glare display, DCI-P3:100, Refresh Rate:165Hz, IPS-level, Adaptive-Sync, MUX Switch + Optimus

15.6-inch, FHD (1920 x 1080) 16:9, anti-glare display, sRGB:100%, Adobe:75.35%, Refresh Rate:300Hz, IPS-level, Adaptive-Sync, MUX Switch + Optimus

15.6-inch, FHD (1920 x 1080) 16:9, anti-glare display, sRGB:62.5%, Adobe:47.34%, Refresh Rate:144Hz, IPS-level, Adaptive-Sync, MUX Switch + Optimus

## Memory

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8GB DDR5-4800, SO-DIMM x 2 slot, Max Capacity: 32GB

16GB DDR5-4800, SO-DIMM x 2 slot, Max Capacity: 32GB

Support dual channel memory

## Storage

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512GB M.2 NVMe™ PCIe® 3.0 SSD

512GB M.2 NVMe™ PCIe® 3.0 SSD

1TB M.2 NVMe™ PCIe® 3.0 SSD

## I/O Ports

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1x 3.5mm Combo Audio Jack

1x HDMI 2.0b

1x Thunderbolt™ 4 support DisplayPort™

1x USB 3.2 Gen 2 Type-C support DisplayPort™ / G-SYNC

2x USB 3.2 Gen 1 Type-A

1x RJ45 zLAN port

## Keyboard and Touchpad

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Backlit Chiclet Keyboard RGB

Touchpad

## Camera

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720P HD camera

## Audio

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Dolby Atmos

Hi-Res certification

AI noise-canceling technology

Built-in array microphone

2-speaker system

## Network and Communication

Wi-Fi 6(802.11ax)+Bluetooth 5.2 (Dual band) 2\*2;(\*BT version may change with OS upgrades.)

## Battery

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56WHrs, 4S1P, 4-cell Li-ion

90WHrs, 4S1P, 4-cell Li-ion

## Power Supply

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ø6.0, 240W AC Adapter, Output: 20V DC, 12A, 240W, Input: 100~240V AC 50/60Hz universal

ø6.0, 200W AC Adapter, Output: 20V DC, 10A, 200W, Input: 100-240V AC, 50/60Hz universal

## Weight

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2.20 Kg (4.85 lbs)

## Dimensions (W x D x H)

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35.4 x 25.1 x 2.24 ~ 2.49 cm (13.94" x 9.88" x 0.88" ~ 0.98")

## Security

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BIOS Administrator Password and User Password Protection

Kensington Security Slot™

## Included in the Box

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TUF Gaming M5 V2 mouse P304(optional)

TUF backpack(optional)

## Note

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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.

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\* 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.**

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