ASUS

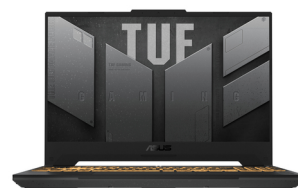# ASUS TUF Gaming F15 TUF507VI-LP086W Intel® Core™ i7 i7-13620H Laptop 39,6 cm (15.6") Full HD 16 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 4070 Wi-Fi 6 (802.11ax) Windows 11 Home Grey

Brand : ASUS

Product family: TUF Gaming

Article code: 90NR0FH8-M00490

Product name : TUF507VI-LP086W

ASUS TUF Gaming F15 TUF507VI-LP086W. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-13620H. Display diagonal: 39,6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 16 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics, Discrete graphics card model: NVIDIA GeForce RTX 4070. Operating system installed: Windows 11 Home. Product color: Grey

Design

Colour name	Jaeger Gray
Product type *	Laptop
Product colour *	Grey
Form factor *	Clamshell
Market positioning	Gaming
Introduction year	2023

Display

Display diagonal *	39.6 cm (15.6")
Display resolution *	1920 x 1080 pixels
Touchscreen *	✗
HD type	Full HD
Panel type	IPS
LED backlight	✔
Native aspect ratio	16:9
Anti-glare screen	✔
RGB colour space	sRGB
Colour gamut	100%
Maximum refresh rate	144 Hz

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	13th gen Intel® Core™ i7
Processor model *	i7-13620H
Processor cores	10
Processor boost frequency	4.9 GHz
Performance cores	6
Efficient cores	4
Performance-core Max Turbo Frequency	4.9 GHz
Efficient-core Max Turbo Frequency	3.6 GHz
Processor cache	24 MB
Processor cache type	Smart Cache
Processor base power	45 W
Maximum turbo power	115 W

Audio

Number of built-in speakers	2
Built-in microphone	✔

Camera

Front camera	✔
Front camera resolution	1280 x 720 pixels
Front camera HD type	HD

Network

Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)
Wi-Fi standards	Wi-Fi 6 (802.11ax)
Mobile network connection *	✗
Antenna type	2x2
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
Bluetooth version	5.1

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
HDMI version	2.1
Thunderbolt 4 ports quantity	1
Intel® Thunderbolt 4	✔
Combo headphone/mic port	✔
Power adapter barrel connector	6.0 mm
USB Type-C DisplayPort Alternate Mode	✔

Performance

Repairability index	8.3

Memory

Internal memory *	16 GB
Internal memory type	DDR5-SDRAM
Memory clock speed	4800 MHz
Memory form factor	SO-DIMM
Memory layout (slots x size)	1 x 16 GB
Memory slots	2x SO-DIMM
Maximum internal memory *	32 GB

Storage

Total storage capacity *	1 TB
Storage media *	SSD
Total SSDs capacity	1 TB
Number of SSDs installed	1
SSD capacity	1 TB
SSD interface	PCI Express 4.0
NVMe	✔
SSD form factor	M.2
Optical drive type *	✘

Graphics

Discrete GPU manufacturer	NVIDIA
Discrete graphics card model *	NVIDIA GeForce RTX 4070
Discrete graphics card memory	8 GB
Discrete graphics memory type	GDDR6
On-board graphics card *	✔
Discrete graphics card *	✔
On-board graphics card family	Intel® UHD Graphics
On-board graphics card model *	Intel® UHD Graphics
NVIDIA G-SYNC	✔

Audio

Audio system	Dolby Atmos

Keyboard

Pointing device	Touchpad
Numeric keypad *	✔
Keyboard backlit	✔
Keyboard backlit colour	RGB
Keyboard backlit zone	1-zone RGB

Software

Operating system architecture	64-bit
Operating system installed *	Windows 11 Home

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	4
Battery capacity *	90 Wh

Power

AC adapter power	240 W
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
AC adapter output current	12 A
AC adapter output voltage	20 V
USB Power Delivery (USB PD) *	✔

Security

Cable lock slot	✔
Cable lock slot type	Kensington
Trusted Platform Module (TPM)	✔
Password protection	✔
Password protection type	BIOS, User

Sustainability

Sustainability compliance	✔
Sustainability certificates	ENERGY STAR

Weight & dimensions

Width	354 mm
Depth	251 mm
Height (front)	2.24 cm
Height (rear)	2.49 cm
Weight *	2.2 kg

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