

DESIGN
Brand ASUS
Model ROG GU502LW-AZ057T
Family ROG
Series Zephyrus M
Product type Notebook
Form factor Clamshell
Market positioning Gaming
Product colour Black
DISPLAY
Display diagonal 15.6"
Display resolution 1920 x 1080 pixels
Touchscreen NO
HD type Full HD
Aspect ratio 16/9
LED backlight YES
Panel type IPS
Virtual Reality (VR) ready YES
Maximum refresh rate 240 Hz
CPU
Processor frequency 2.6 GHz
Processor family 10th gen Intel® Core™ i7
Processor model i7-10750H
Processor cores 6
Processor threads 12
System bus rate 8 GT/s
Processor cache 12 MB

Processor cache type	Smart Cache
Processor socket	BGA 1440
Processor lithography	14 nm
Processor operating modes	64-bit
Processor codename	Comet Lake
Thermal Design Power (TDP)	45 W
Tjunction	100 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	3.0
Processor package size	42 x 28 mm
Supported instruction sets	SSE4.1,SSE4.2,AVX 2.0
CPU configuration (max)	1
Processor boost frequency	5 GHz
Processor manufacturer	Intel
MEMORY	
Internal memory	16 GB
Internal memory type	DDR4-SDRAM
Maximum internal memory	32 GB
Memory clock speed	3200 MHz
STORAGE	
Total storage capacity	1000 GB
Storage media	SSD
Card reader integrated	NO
Number of SSDs installed	1
Total SSDs capacity	1000 GB
SSD capacity	1000 GB
GRAPHIC ADAPTER	
On-board graphics adapter	

YES
Discrete graphics adapter YES
On-board graphics adapter model Intel® UHD Graphics
Discrete graphics adapter model NVIDIA® GeForce RTX™ 2070
On-board graphics adapter base frequency 350 MHz
On-board graphics adapter dynamic frequency (max) 1150 MHz
On-board graphics adapter ID 0x9BC4
On-board graphics adapter OpenGL version 4.5
Discrete graphics adapter memory 8 GB
On-board graphics adapter DirectX version 12.0
Discrete graphics memory type GDDR6

AUDIO

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

CAMERA

PORTS & CONNECTIVITY

HDMI ports quantity 1
Ethernet LAN (RJ-45) ports 1
Thunderbolt 3 ports quantity 1
Headphone outputs 1
Microphone in YES

NETWORKING

Bluetooth YES
Wi-Fi standards Wi-Fi 6 (802.11ax)
Ethernet LAN YES
Bluetooth version 5.1
Top Wi-Fi standard Wi-Fi 6 (802.11ax)

OPTICAL DRIVE

Optical drive type
NO

KEYBOARD & MOUSE

Numeric keypad
NO

TECHNOLOGY

Intel® Identity Protection Technology (Intel® IPT)
YES

Intel® Hyper Threading Technology (Intel® HT Technology)
YES

Enhanced Intel SpeedStep Technology
YES

Intel® Quick Sync Video Technology
YES

Intel® AES New Instructions (Intel® AES-NI)
YES

Intel Trusted Execution Technology
NO

Intel VT-x with Extended Page Tables (EPT)
YES

Intel 64
YES

Execute Disable Bit
YES

Idle States
YES

Thermal Monitoring Technologies
YES

Embedded options available
NO

Intel Virtualization Technology for Directed I/O (VT-d)
YES

Intel Virtualization Technology (VT-x)
YES

Processor ARK ID
201837

Intel Flex Memory Access
YES

Intel® Secure Key
YES

Intel Stable Image Platform Program (SIPP)
NO

Intel® OS Guard
YES

BATTERY & POWER

AC adapter power
230 W

DIMENSIONS

Weight
1.9 kg

Width

360 mm

Depth
252 mm

OPERATING SYSTEM & SOFTWARE

Operating system installed
Windows 10 Home