



# ASUS ROG G512LV-AZ059T laptop 39.6 cm (15.6") Full HD Intel® Core™ i7 i7-10750H 16 GB DDR4-SDRAM 1 TB SSD NVIDIA® GeForce RTX™ 2060 Wi-Fi 6 (802.11ax) Windows 10 Home Blue

Brand : ASUS

Product family: ROG

Product code: G512LV-AZ059T

Product name : G512LV-AZ059T



- Windows 10 Home
- Intel Core i7-10750H (12MB Cache, 2.6GHz)
- 39.6 cm (15.6") Full HD 1920 x 1080, NVIDIA GeForce RTX 2060 (6GB GDDR6)
- 16GB (3200MHz) DDR4-SDRAM & 1000GB SSD

Intel Core i7-10750H (12MB Cache, 2.6GHz), 16GB DDR4-SDRAM, 1000GB SSD, 39.6 cm (15.6") Full HD 1920 x 1080, Intel UHD Graphics 630, NVIDIA GeForce RTX 2060 (6GB GDDR6), LAN, WLAN, Windows 10 Home

ASUS ROG G512LV-AZ059T. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-10750H, Processor frequency: 2.6 GHz. Display diagonal: 39.6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics. Operating system installed: Windows 10 Home. Product colour: Blue



Design		Network	
Product type *	Laptop	Bluetooth	✓
Product colour *	Blue	Bluetooth version	5.0
Form factor *	Clamshell	<b>Ports &amp; interfaces</b>	
Market positioning	Gaming	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Intel® vPro™ Platform Eligibility	✗	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
<b>Display</b>		Ethernet LAN (RJ-45) ports	1
Display diagonal *	39.6 cm (15.6")	HDMI ports quantity *	1
Display resolution *	1920 x 1080 pixels	Combo headphone/mic port	✓
Touchscreen *	✗	USB Type-C DisplayPort Alternate Mode	✓
HD type	Full HD	<b>Performance</b>	
LED backlight	✓	Virtual Reality (VR) ready	✓
Native aspect ratio	16:9	<b>Keyboard</b>	
Display surface	Matt	Pointing device	Touchpad
<b>Processor</b>		Numeric keypad *	✗
Processor manufacturer *	Intel	Keyboard backlit	✓
Processor generation	10th gen Intel® Core™ i7	Keyboard backlit colour	Various
Processor family *	Intel® Core™ i7	<b>Software</b>	
Processor model *	i7-10750H	Operating system installed *	Windows 10 Home
Processor frequency *	2.6 GHz	<b>Processor special features</b>	
Processor boost frequency	5 GHz	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor threads	12	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
System bus rate	8 GT/s	Enhanced Intel SpeedStep Technology	✓
Processor cores	6		
Processor cache	12 MB		
Processor cache type	Smart Cache		
Processor socket	BGA 1440		
Processor lithography	14 nm		
Processor operating modes	64-bit		

Processor		Processor special features	
Processor codename	Comet Lake	Intel® Quick Sync Video Technology	✓
Thermal Design Power (TDP)	45 W	Intel Flex Memory Access	✓
Configurable TDP-down	35 W	Intel® AES New Instructions (Intel® AES-NI)	✓
Tjunction	100 °C	Intel Trusted Execution Technology	✗
Maximum number of PCI Express lanes	16	Intel VT-x with Extended Page Tables (EPT)	✓
PCI Express slots version	3.0	Intel® Secure Key	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel Stable Image Platform Program (SIPP)	✗
Memory		Intel® OS Guard	✓
Internal memory *	16 GB	Intel Software Guard Extensions (Intel SGX)	✓
Internal memory type	DDR4-SDRAM	Intel 64	✓
Memory clock speed	3200 MHz	Execute Disable Bit	✓
Memory slots	2x SO-DIMM	Idle States	✓
Maximum internal memory *	32 GB	Thermal Monitoring Technologies	✓
Storage		Processor package size	42 x 28 mm
Total storage capacity *	1 TB	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Storage media *	SSD	CPU configuration (max)	1
Total SSDs capacity	1 TB	Embedded options available	✗
Number of SSDs installed	1	Intel Virtualization Technology for Directed I/O (VT-d)	✓
SSD capacity	1 TB	Intel Virtualization Technology (VT-x)	✓
SSD interface	M.2	Processor ARK ID	201837
Graphics		Battery	
Discrete graphics card model *	NVIDIA® GeForce RTX™ 2060	Number of battery cells	4
On-board graphics card *	✓	Battery capacity *	66 Wh
Discrete graphics card *	✓	Power	
On-board graphics card model *	Intel® UHD Graphics	AC adapter power	230 W
On-board graphics card base frequency	350 MHz	AC adapter frequency	50/60 Hz
On-board graphics card dynamic frequency (max)	1150 MHz	AC adapter input voltage	100 - 240 V
On-board graphics card DirectX version	12.0	AC adapter output current	11.8 A
On-board graphics card OpenGL version	4.5	AC adapter output voltage	19.5 V
On-board graphics card ID	0x9BC4	Security	
Discrete graphics card memory	6 GB	Password protection	✓
Discrete graphics memory type	GDDR6	Password protection type	BIOS, User
Audio		Weight & dimensions	
Number of built-in speakers	2	Width	360 mm
Built-in microphone	✓	Depth	275 mm
Network		Height	25.8 mm
Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)	Weight *	2.4 kg
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax)	Logistics data	
Mobile network connection *	✗	Harmonized System (HS) code	84713000
Antenna type	2x2	Technical details	
Ethernet LAN	✓	Repairability index	6.5
Ethernet LAN data rates	10,100,1000 Mbit/s		

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