

ASUS ROG Strix G512LW-HN038 Intel® Core™ i7 i7-10750H Laptop 39,6 cm (15.6") Full HD 16 GB DDR4-SDRAM 512 GB SSD NVIDIA® GeForce RTX™ 2070 Wi-Fi 6 (802.11ax) FreeDOS Black

Brand : ASUS

Product family: ROG

Article code: 90NR0391-
M01190Product name : G512LW-
HN038

ASUS ROG Strix G512LW-HN038. 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: 512 GB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics. Operating system installed: FreeDOS. Product color: Black



Design		Network	
Product type *	Laptop	Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)
Product color *	Black	Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax)
Form factor *	Clamshell		
Market positioning	Gaming	Mobile network connection *	✗
Display		Antenna type	2x2
Display diagonal *	39,6 cm (15.6")	Ethernet LAN	✓
Display resolution *	1920 x 1080 pixels	Ethernet LAN data rates	10,100,1000 Mbit/s
Touchscreen *	✗	Bluetooth	✓
HD type	Full HD	Bluetooth version	5.0
Panel type	IPS	Ports & interfaces	
LED backlight	✓	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Native aspect ratio	16:9	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Display brightness	250 cd/m²	Ethernet LAN (RJ-45) ports	1
Maximum refresh rate	144 Hz	HDMI ports quantity *	1
Processor		Combo headphone/mic port	✓
Processor manufacturer *	Intel	Performance	
Processor family *	Intel® Core™ i7	Virtual Reality (VR) ready	✓
Processor generation	10th gen Intel® Core™ i7	Repairability index	6.8
Processor model *	i7-10750H	Keyboard	
Processor cores	6	Pointing device	Touchpad
Processor threads	12	Numeric keypad *	✗
Processor boost frequency	5 GHz	Software	
Processor frequency *	2,6 GHz	Operating system installed *	FreeDOS
System bus rate	8 GT/s		
Processor cache	12 MB		
Processor cache type	Smart Cache		
Processor socket	BGA 1440		
Processor lithography	14 nm		

Processor		Processor special features	
Processor operating modes	64-bit	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor codename	Comet Lake	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Thermal Design Power (TDP)	45 W	Enhanced Intel SpeedStep Technology	✓
Configurable TDP-down	35 W	Intel® Quick Sync Video Technology	✓
Tjunction	100 °C	Intel Flex Memory Access	✓
Maximum number of PCI Express lanes	16	Intel® AES New Instructions (Intel® AES-NI)	✓
PCI Express slots version	3.0	Intel Trusted Execution Technology	✗
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel VT-x with Extended Page Tables (EPT)	✓
Memory		Intel® Secure Key	✓
Internal memory *	16 GB	Intel Stable Image Platform Program (SIPP)	✗
Internal memory type	DDR4-SDRAM	Intel® OS Guard	✓
Memory clock speed	3200 MHz	Intel Software Guard Extensions (Intel SGX)	✓
Memory slots	2x SO-DIMM	Intel 64	✓
Maximum internal memory *	32 GB	Execute Disable Bit	✓
Storage		Idle States	✓
Total storage capacity *	512 GB	Thermal Monitoring Technologies	✓
Storage media *	SSD	Processor package size	42 x 28 mm
Total SSDs capacity	512 GB	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Number of SSDs installed	1	CPU configuration (max)	1
SSD capacity	512 GB	Embedded options available	✗
SSD form factor	M.2	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Optical drive type *	✗	Intel Virtualization Technology (VT-x)	✓
Graphics		Processor ARK ID	201837
Discrete graphics card model *	NVIDIA® GeForce RTX™ 2070	Power	
Discrete graphics card memory	8 GB	AC adapter power	230 W
On-board graphics card *	✓	Security	
On-board GPU manufacturer	Intel	Password protection	✓
Discrete graphics card *	✓	Password protection type	BIOS, User
On-board graphics card model *	Intel® UHD Graphics	Weight & dimensions	
On-board graphics card base frequency	350 MHz	Width	360 mm
On-board graphics card dynamic frequency (max)	1150 MHz	Depth	275 mm
On-board graphics card DirectX version	12.0	Height (front)	2,1 cm
On-board graphics card OpenGL version	4.5	Height (rear)	2,58 cm
On-board graphics card ID	0x9BC4	Weight *	2,3 kg
Audio			
Number of built-in speakers	2		
Speaker power	4,2 W		
Built-in microphone	✓		

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