ASUS

ASUS ROG Strix GL502VS-GZ118T laptop Intel® Core™ i7 i7-7700HQ 15.6" Full HD 8 GB DDR4-SDRAM 1.13 TB HDD+SSD NVIDIA® GeForce® GTX 1070 Wi-Fi 5 (802.11ac) Windows 10 Home Black

Brand : ASUS

Product family: ROG

Article code: GL502VS-GZ118T

Product name : GL502VS-GZ118T

Intel Core i7-7700HQ (6M Cache, 2.8GHz), 8GB DDR4, 1TB HDD + 128GB SSD, Intel HD Graphics 630, NVIDIA GeForce GTX 1070, Ethernet, WLAN 802.11, Windows 10
ASUS ROG Strix GL502VS-GZ118T. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-7700HQ, Processor frequency: 2.8 GHz. Display diagonal: 15.6", HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 1.13 TB, Storage media: HDD+SSD. On-board graphics card model: Intel® HD Graphics 630. Operating system installed: Windows 10 Home. Product color: Black

Design		Keyboard	
Product type *	Laptop	Windows keys	✔
Product color *	Black	**Software**	
Form factor *	Clamshell	Operating system installed *	Windows 10 Home
Market positioning	Gaming	**Processor special features**	
Display		Intel® Wireless Display (Intel® WiDi)	✔
Display diagonal *	15.6"	Intel® My WiFi Technology (Intel® MWT)	✔
Display resolution *	1920 x 1080 pixels	Intel® Smart Response Technology	✔
Touchscreen *	✖	Intel® Identity Protection Technology (Intel® IPT)	✔
HD type	Full HD		
LED backlight	✔	Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Native aspect ratio	16:9		
Processor		Intel® Turbo Boost Technology	2.0
Processor manufacturer *	Intel	Enhanced Intel SpeedStep Technology	✔
Processor family *	Intel® Core™ i7	Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Processor generation	7th gen Intel® Core™ i7		
Processor model *	i7-7700HQ	Intel Clear Video Technology	✔
Processor cores	4	Intel® InTru™ 3D Technology	✔
Processor threads	8	Intel® Quick Sync Video Technology	✔
Processor boost frequency	3.8 GHz		
Processor frequency *	2.8 GHz	Intel Flex Memory Access	✔
System bus rate	8 GT/s	Intel® Smart Cache	✔
Processor cache	6 MB		
Processor cache type	Smart Cache	Intel® AES New Instructions (Intel® AES-NI)	✔
Processor lithography	14 nm		
Processor operating modes	64-bit	Intel Trusted Execution Technology	✖
Processor series	Intel Core i7-7700 Mobile Series	Intel Enhanced Halt State	✔
Processor codename	Kaby Lake	Intel VT-x with Extended Page Tables (EPT)	✔
Bus type	DMI3		
Thermal Design Power (TDP)	45 W	Intel® Secure Key	✔
Configurable TDP-down	35 W	Intel TSX-NI	✖
Tjunction	100 °C	Intel Stable Image Platform Program (SIPP)	✖
Maximum number of PCI Express lanes	16		
		Intel® OS Guard	✔
PCI Express slots version	3.0		

Processor

PCI Express configurations	1x16, 1x8, 2x4, 2x8
ECC supported by processor	✗

Memory

Internal memory *	8 GB
Internal memory type	DDR4-SDRAM
Memory slots	2x SO-DIMM
Maximum internal memory *	32 GB

Storage

Total storage capacity *	1.13 TB
Storage media *	HDD+SSD
Number of HDDs installed	1
HDD capacity	1 TB
SSD capacity	128 GB
Optical drive type *	✗
Card reader integrated	✔
Compatible memory cards	MMC, SD, SDHC, SDXC

Graphics

Discrete graphics card model *	NVIDIA® GeForce® GTX 1070
Discrete graphics card memory	8 GB
On-board graphics card *	✔
Discrete graphics card *	✔
On-board graphics card model *	Intel® HD Graphics 630
On-board graphics card base frequency	350 MHz
On-board graphics card dynamic frequency (max)	1100 MHz
Maximum on-board graphics card memory	64 GB
On-board graphics card DirectX version	12.0
On-board graphics card OpenGL version	4.4
On-board graphics card ID	0x591B

Camera

Front camera	✔

Network

Wi-Fi	✔
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)
Wi-Fi standards	Wi-Fi 5 (802.11ac)
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
Bluetooth version	4.0

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
Mini DisplayPorts quantity	1
DVI port	✗
Combo headphone/mic port	✔
Docking connector	✗

Performance

Motherboard chipset	Intel® HM175
Repairability index	5.2

Processor special features

Intel Software Guard Extensions (Intel SGX)	✔
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✔
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	42 x 28 mm
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
CPU configuration (max)	1
Embedded options available	✗
Graphics & IMC lithography	14 nm
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1.00
Intel Smart Response Technology version	1.00
Intel Stable Image Platform Program (SIPP) version	0.00
Intel Secure Key Technology version	1.00
Intel Small Business Advantage (SBA) version	1.00
Intel TSX-NI version	0.00
Intel Virtualization Technology (VT-x)	✔
Processor ARK ID	97185
Conflict-Free processor	✔

Battery

Number of battery cells	4
Battery capacity *	62 Wh

Power

AC adapter power	230 W
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
AC adapter output current	9.23 A
AC adapter output voltage	19.5 V
DC-in jack	✔

Security

Cable lock slot	✔
Cable lock slot type	Kensington
Password protection	✔
Password protection type	BIOS, HDD, User

Certificates

Compliance certificates	RoHS
Certification	UL, TUV, CE Marking Compliance, FCC Compliance, BSMI, Australia C-TICK / NZ A-Tick Compliance, CCC, GOST-R, CB, Energy star, WEEE, RoHS

Sustainability

Sustainability certificates	ENERGY STAR

Weight & dimensions

Width	15.4" (390 mm)
Depth	10.5" (266 mm)
Height	1.19" (30.1 mm)
Weight *	5.07 lbs (2.3 kg)

Keyboard

Pointing device	Touchpad
Numeric keypad *	✔
Full-size keyboard	✔

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