ASUS ROG Strix G G531GU-AL001 Intel® Core™ i7 i7-9750H Laptop 39,6 cm (15.6") Full HD 8 GB DDR4-SDRAM 512 GB SSD NVIDIA® GeForce® GTX 1660 Ti Wi-Fi 5 (802.11ac) Black

Brand : ASUS

Product family: ROG

Product code: 90NR01J3-M03820

Product name : G G531GU-AL001

- No OS
- Intel Core i7-9750H (12MB Cache, 2.6GHz)
- 39.6 cm (15.6") Full HD 1920 x 1080, NVIDIA GeForce GTX 1660 Ti (6GB)
- 8GB (2666MHz) DDR4-SDRAM & 512GB SSD

Intel Core i7-9750H (12MB Cache, 2.6GHz), 8GB DDR4-SDRAM, 512GB SSD, 39.6 cm (15.6") Full HD 1920 x 1080, Intel UHD Graphics 630, NVIDIA GeForce GTX 1660 Ti (6GB), LAN, WLAN, Bluetooth, No OS ASUS ROG Strix G G531GU-AL001. Product type: Laptop, Form factor: Clamshell. Processor type: Intel® Core™ i7, Processor: i7-9750H, Processor frequency: 2,6 GHz. Display diagonal: 39,6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics 630, Discrete graphics card model: NVIDIA® GeForce® GTX 1660 Ti. Product colour: Black

Design

Product type *	Laptop
Product colour *	Black
Form factor *	Clamshell
Market positioning	Gaming

Display

Display diagonal *	39,6 cm (15.6")
Display resolution *	1920 x 1080 pixels
Touchscreen *	✗
HD type	Full HD
LED backlight	✔
Native aspect ratio	16:9
Dual-screen	✗

Processor

Processor manufacturer *	Intel
Processor type *	Intel® Core™ i7
Processor generation	9th gen Intel® Core™ i7
Processor *	i7-9750H
Processor number of cores	6
Processor threads	12
Processor boost frequency	4,5 GHz
Processor frequency *	2,6 GHz
System bus data transfer 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	Coffee Lake
Thermal Design Power (TDP)	45 W
Configurable TDP-down	35 W
Tjunction	100 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	3.0

Network

Ethernet LAN connection	✔
Bluetooth	✔
Bluetooth version	5.0

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
DVI port	✗
Combo headphone/mic port	✔
Alienware graphics amplifier port	✗
ExpressCard slot	✗
CardBus PCMCIA slot type	✗
SmartCard slot	✗
TV-out	✗

Performance

Repairability index	6.5

Keyboard

Pointing device	Touchpad
Numeric keypad *	✗
Full-size keyboard	✔
Windows keys	✔

Software

Operating system software *	✗

Processor special features

Intel My WiFi Technology	✔
Intel Identity Protection Technology	✔
Intel Hyper-Threading Technology	✔

Processor

PCI Express configurations	1x16, 2x8, 1x8+2x4

Memory

Internal memory *	8 GB
Internal memory type	DDR4-SDRAM
Memory speed	2666 MHz
Maximum memory *	32 GB

Storage

Total storage capacity *	512 GB
Storage media *	SSD
Total SSDs capacity	512 GB
Optical drives *	✗

Graphics

Discrete graphics card model *	NVIDIA® GeForce® GTX 1660 Ti
Discrete graphics card memory	6 GB
On-board graphics card *	✔
Discrete graphics card *	✔
On-board graphics card family	Intel® UHD Graphics
On-board graphics card model *	Intel® UHD Graphics 630
On-board graphics card base frequency	350 MHz
On-board graphics card dynamic frequency (max)	1150 MHz
Maximum on-board graphics card memory	64 GB
On-board graphics card DirectX version	12.0
On-board graphics card OpenGL version	4.5
On-board graphics card ID	0x3E9B

Audio

Number of built-in speakers	2
Speaker power	4 W

Network

Wi-Fi	✔
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac)
Antenna type	2x2

Processor special features

Intel Turbo Boost Technology	2.0
Enhanced Intel SpeedStep Technology	✔
Intel Clear Video HD Technology	✔
Intel Clear Video Technology	✔
Intel® InTru™ 3D Technology	✔
Intel® Quick Sync Video Technology	✔
Intel Flex Memory Access	✔
Intel AES New Instructions	✔
Intel Trusted Execution Technology	✗
Intel VT-x with Extended Page Tables (EPT)	✔
Intel® Secure Key	✔
Intel TSX-NI	✗
Intel Stable Image Platform Program (SIPP)	✗
Intel® OS Guard	✔
Intel Software Guard Extensions (Intel SGX)	✔
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	42 x 28 mm
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
CPU configuration (max)	1
Embedded options available	✗
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Virtualization Technology (VT-x)	✔
Processor ARK ID	191045

Weight & dimensions

Width	360 mm
Depth	275 mm
Height	26 mm
Weight *	2,4 kg

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