

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		Network	
Product type *	Laptop	Ethernet LAN connection	✓
Product colour *	Black	Bluetooth	✓
Form factor *	Clamshell	Bluetooth version	5.0
Market positioning	Gaming	Ports & interfaces	
Display		USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Display diagonal *	39,6 cm (15.6")	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Display resolution *	1920 x 1080 pixels	Ethernet LAN (RJ-45) ports	1
Touchscreen *	✗	HDMI ports quantity *	1
HD type	Full HD	DVI port	✗
LED backlight	✓	Combo headphone/mic port	✓
Native aspect ratio	16:9	Alienware graphics amplifier port	✗
Dual-screen	✗	ExpressCard slot	✗
Processor		CardBus PCMCIA slot type	✗
Processor manufacturer *	Intel	SmartCard slot	✗
Processor type *	Intel® Core™ i7	TV-out	✗
Processor generation	9th gen Intel® Core™ i7	Performance	
Processor *	i7-9750H	Repairability index	6.5
Processor number of cores	6	Keyboard	
Processor threads	12	Pointing device	Touchpad
Processor boost frequency	4,5 GHz	Numeric keypad *	✗
Processor frequency *	2,6 GHz	Full-size keyboard	✓
System bus data transfer rate	8 GT/s	Windows keys	✓
Processor cache	12 MB	Software	
Processor cache type	Smart Cache	Operating system software *	✗
Processor socket	BGA 1440	Processor special features	
Processor lithography	14 nm	Intel My WiFi Technology	✓
Processor operating modes	64-bit	Intel Identity Protection Technology	✓
Processor codename	Coffee Lake	Intel Hyper-Threading Technology	✓
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		

Processor		Processor special features	
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel Turbo Boost Technology	2.0
Memory		Enhanced Intel SpeedStep Technology	✓
Internal memory *	8 GB	Intel Clear Video HD Technology	✓
Internal memory type	DDR4-SDRAM	Intel Clear Video Technology	✓
Memory speed	2666 MHz	Intel® InTru™ 3D Technology	✓
Maximum memory *	32 GB	Intel® Quick Sync Video Technology	✓
Storage		Intel Flex Memory Access	✓
Total storage capacity *	512 GB	Intel AES New Instructions	✓
Storage media *	SSD	Intel Trusted Execution Technology	✗
Total SSDs capacity	512 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Optical drives *	✗	Intel® Secure Key	✓
Graphics		Intel TSX-NI	✗
Discrete graphics card model *	NVIDIA® GeForce® GTX 1660 Ti	Intel Stable Image Platform Program (SIPP)	✗
Discrete graphics card memory	6 GB	Intel® OS Guard	✓
On-board graphics card *	✓	Intel Software Guard Extensions (Intel SGX)	✓
Discrete graphics card *	✓	Intel 64	✓
On-board graphics card family	Intel® UHD Graphics	Execute Disable Bit	✓
On-board graphics card model *	Intel® UHD Graphics 630	Idle States	✓
On-board graphics card base frequency	350 MHz	Thermal Monitoring Technologies	✓
On-board graphics card dynamic frequency (max)	1150 MHz	Processor package size	42 x 28 mm
Maximum on-board graphics card memory	64 GB	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
On-board graphics card DirectX version	12.0	CPU configuration (max)	1
On-board graphics card OpenGL version	4.5	Embedded options available	✗
On-board graphics card ID	0x3E9B	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Audio		Intel Virtualization Technology (VT-x)	✓
Number of built-in speakers	2	Processor ARK ID	191045
Speaker power	4 W	Weight & dimensions	
Network		Width	360 mm
Wi-Fi	✓	Depth	275 mm
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)	Height	26 mm
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac)	Weight *	2,4 kg
Antenna type	2x2		



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