ASUS

ASUS ROG Strix GL504GW-ES043 laptop Intel® Core™ i7 i7-8750H 39.6 cm (15.6") Full HD 16 GB DDR4-SDRAM 512 GB SSD NVIDIA® GeForce RTX™ 2070 Wi-Fi 5 (802.11ac) Windows 10 Black

Brand : ASUS

Product family: ROG

Product code: GL504GW-ES043

Product name : GL504GW-ES043

Intel® Core™ i7-8750H, NVIDIA® GeForce RTX™ 2070 8GB GDDR6, 16GB 2666MHz, 512 GB SSD, 15.6" (1920x1080), 361 x 262 x 26.1 mm, 2.4 kg, Win10
ASUS ROG Strix GL504GW-ES043. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-8750H, Processor frequency: 2.2 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 630. Operating system installed: Windows 10. 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
HD type	Full HD
Panel type	IPS
LED backlight	✔
Native aspect ratio	16:9
Dual-screen	✘
Display response rise/fall	3 ms
Maximum refresh rate	144 Hz
NTSC coverage (typical)	72%

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	8th gen Intel® Core™ i7
Processor model *	i7-8750H
Processor cores	6
Processor threads	12
Processor boost frequency	4.1 GHz
Processor frequency *	2.2 GHz
System bus rate	8 GT/s
Processor cache	9 MB
Processor cache type	Smart Cache
Processor socket	BGA 1440
Processor lithography	14 nm
Processor operating modes	64-bit
Processor codename	Coffee Lake
Bus type	DMI
Stepping	U0

Network

Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
Bluetooth version	5.0

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	1
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
HDMI version	2.0b
Mini DisplayPorts quantity	1
Combo headphone/mic port	✔

Performance

Repairability index	5.2

Keyboard

Pointing device	Touchpad
Numeric keypad *	✔
Keyboard backlit	✔
Windows keys	✔

Software

Operating system installed *	Windows 10

Processor special features

Intel® My WiFi Technology (Intel® MWT)	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	2.0

Processor

Thermal Design Power (TDP)	45 W
Configurable TDP-down	35 W
Configurable TDP-down frequency	1.7 GHz
Tjunction	100 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	3.0
PCI Express configurations	1x16, 1x8+2x4, 2x8
ECC supported by processor	✘

Memory

Internal memory *	16 GB
Internal memory type	DDR4-SDRAM
Memory clock speed	2666 MHz
Maximum internal memory *	32 GB

Storage

Total storage capacity *	512 GB
Storage media *	SSD
Total SSDs capacity	512 GB
SSD interface	M.2, NVMe, PCI Express
NVMe	✔
SSD form factor	M.2
Card reader integrated	✔
Compatible memory cards	SD

Graphics

Discrete graphics card model *	NVIDIA® GeForce RTX™ 2070
Discrete graphics card memory	8 GB
Discrete graphics memory type	GDDR6
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)	1100 MHz
Maximum on-board graphics card memory	64 GB
On-board graphics card DirectX version	12.0
On-board graphics card OpenGL version	4.5
On-board graphics card ID	0x3E9B
Number of discrete graphics cards installed	1

Audio

Number of built-in speakers	2
Speaker power	1 W
Built-in microphone	✔

Camera

Front camera	✔

Network

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

Processor special features

Enhanced Intel SpeedStep Technology	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel Clear Video Technology	✔
Intel® InTru™ 3D Technology	✔
Intel® Quick Sync Video Technology	✔
Intel Flex Memory Access	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel Trusted Execution Technology	✘
Intel Enhanced Halt State	✔
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® 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
Processor code	SR3YY
CPU configuration (max)	1
Embedded options available	✘
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1.00
Intel Stable Image Platform Program (SIPP) version	0.00
Intel Secure Key Technology version	1.00
Intel TSX-NI version	0.00
Intel Virtualization Technology (VT-x)	✔
Processor ARK ID	134906

Power

AC adapter power	230 W
DC-in jack	✔

Security

Cable lock slot	✔
Cable lock slot type	Kensington

Weight & dimensions

Width	361 mm
Depth	262 mm
Height	26.1 mm
Weight *	2.4 kg

Packaging content

AC adapter included *	✔

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