ASUS

ASUS ROG G751JY-T7042H laptop Intel® Core™ i7 i7-4860HQ 17.3" Full HD 32 GB DDR3L-SDRAM 2.26 TB HDD+SSD NVIDIA® GeForce® GTX 980M Windows 8.1 Black

Brand : ASUS **Product family:** ROG **Article code:** G751JY-T7042H

Product name : G751JY-T7042H

Intel Core i7-4860HQ (2.4GHz, 6M Cache), 32GB DDR3L, 2000GB HDD + 256GB SSD, Intel Iris Pro Graphics 5200 + NVIDIA GeForce GTX 980M, Gigabit Ethernet, WLAN 802.11 a/ac/b/g/n, WebCam, Windows 8.1
ASUS ROG G751JY-T7042H. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-4860HQ, Processor frequency: 2.4 GHz. Display diagonal: 17.3", HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 32 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 2.26 TB, Storage media: HDD+SSD, Optical drive type: Blu-Ray DVD Combo. Operating system installed: Windows 8.1. Product color: Black

Design

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

Display

Display diagonal *	17.3"
Display resolution *	1920 x 1080 pixels
Touchscreen *	✘
HD type	Full HD
LED backlight	✔
Native aspect ratio	16:9
Display surface	Matt

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	4th gen Intel® Core™ i7
Processor model *	i7-4860HQ
Processor cores	4
Processor threads	8
Processor boost frequency	3.6 GHz
Processor frequency *	2.4 GHz
System bus rate	5 GT/s
Processor cache	6 MB
Processor cache type	Smart Cache
Processor socket	BGA 1364
Processor lithography	22 nm
Processor operating modes	64-bit
Processor series	Intel Core i7-4800 Mobile series

Ports & interfaces

CardBus PCMCIA slot type	✘
SmartCard slot	✘

Performance

Motherboard chipset	Intel® HM87

Keyboard

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

Software

Operating system architecture	64-bit
Operating system installed *	Windows 8.1

Processor special features

Intel® Wireless Display (Intel® WiDi)	✔
Intel® My WiFi Technology (Intel® MWT)	✔
Intel® Anti-Theft Technology (Intel® AT)	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	2.0
Enhanced Intel SpeedStep Technology	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔

Processor

Processor codename	Crystal Well
Bus type	DMI2
FSB Parity	✗
Stepping	C0
Thermal Design Power (TDP)	47 W
Tjunction	100 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	3.0
PCI Express configurations	1x16, 2x8, 1x8+2x4
ECC supported by processor	✗

Memory

Internal memory *	32 GB
Internal memory type	DDR3L-SDRAM
Maximum internal memory *	32 GB

Storage

Total storage capacity *	2.26 TB
Storage media *	HDD+SSD
SSD capacity	256 GB
Optical drive type *	Blu-Ray DVD Combo
Card reader integrated	✔
Compatible memory cards	MMC, SD

Graphics

Discrete graphics card model *	NVIDIA® GeForce® GTX 980M
Discrete graphics card memory	4 GB
Discrete graphics memory type	GDDR5
On-board graphics card *	✔
Discrete graphics card *	✔
On-board graphics card family	Intel® Iris™ Pro Graphics
On-board graphics card model *	Intel® Iris™ Pro Graphics 5200
On-board graphics card base frequency	200 MHz
On-board graphics card dynamic frequency (max)	1200 MHz
Maximum on-board graphics card memory	2 GB
On-board graphics card DirectX version	11.2/12
On-board graphics card OpenGL version	4.3
On-board graphics card ID	0xD26

Audio

Built-in microphone	✔

Camera

Front camera	✔

Network

Wi-Fi	✔
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)
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 *	4
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1

Processor special features

Intel Clear Video Technology	✗
Intel® InTru™ 3D Technology	✔
Intel® Insider™	✔
Intel® Quick Sync Video Technology	✔
Intel Flex Memory Access	✗
Intel® Smart Cache	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel Trusted Execution Technology	✔
Intel Enhanced Halt State	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✗
Intel® Secure Key	✔
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	37.5 x 32 x 1.65 mm
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Processor code	SR1BP
CPU configuration (max)	1
Embedded options available	✗
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1.00
Intel Secure Key Technology version	1.00
Intel Virtualization Technology (VT-x)	✔
Intel Dual Display Capable Technology	✗
Intel FDI Technology	✔
Intel Rapid Storage Technology	✗
Intel Fast Memory Access	✗
Processor ARK ID	76089
Conflict-Free processor	✗

Battery

Number of battery cells	8
Battery capacity	6000 mAh

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	✗

Weight & dimensions

Width	16.4" (416 mm)
Depth	12.5" (318 mm)
Height (front)	0.787" (2 cm)
Height (rear)	2.09" (5.3 cm)

Ports & interfaces

DVI port	✘
VGA (D-Sub) ports quantity	1
Thunderbolt ports quantity	1
Headphone outputs	2
S/PDIF out port	✔
Microphone in	✔
Docking connector	✘
ExpressCard slot	✘

Weight & dimensions

Weight *	10.6 lbs (4.8 kg)

Packaging content

AC adapter included *	✔

Other features

Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x

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