



**MSI Gaming GE62 2QD(Apache Pro)-453US Intel® Core™ i7
i7-5700HQ Laptop 39,6 cm (15.6") Full HD 8 GB DDR3L-SDRAM 1
TB HDD NVIDIA® GeForce® GTX 960M Wi-Fi 5 (802.11ac) Windows
10 Home Black, Red**

Brand : MSI

Product family: Gaming

Product code: GE62
2QD-453US

Product name : GE62
2QD(Apache Pro)-453US



Intel Core i7-5700HQ (6M Cache, 2.70 GHz), 15.6" Full HD (1920x1080) LED, 8GB DDR3L, 1TB SATA HDD, DVD Super Multi, Intel HD Graphics 5600 + NVIDIA GeForce GTX 960M 2GB GDDR5, Gigabit Ethernet, WLAN 802.11ac, Bluetooth 4.1, HD Webcam, Windows 10 Home 64-bit
MSI Gaming GE62 2QD(Apache Pro)-453US. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-5700HQ, Processor frequency: 2,7 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: DDR3L-SDRAM. Total storage capacity: 1 TB, Storage media: HDD, Optical drive type: DVD Super Multi. Operating system installed: Windows 10 Home. Product colour: Black, Red



Design		Ports & interfaces	
Product type *	Laptop	Docking connector	×
Product colour *	Black, Red	ExpressCard slot	×
Form factor *	Clamshell	CardBus PCMCIA slot type	×
Market positioning	Gaming	SmartCard slot	×
Display		Performance	
Display diagonal *	39,6 cm (15.6")	Motherboard chipset	Intel® HM87
Display resolution *	1920 x 1080 pixels	Keyboard	
Touchscreen *	×	Pointing device	Touchpad
HD type	Full HD	Numeric keypad *	✓
LED backlight	✓	Keyboard backlit	✓
Native aspect ratio	16:9	Windows keys	✓
Display surface	Matt	Software	
Dual-screen	×	Operating system architecture	64-bit
Processor		Operating system installed *	Windows 10 Home
Processor manufacturer *	Intel	Processor special features	
Processor family *	Intel® Core™ i7	Intel® Wireless Display (Intel® WiDi)	✓
Processor generation	5th gen Intel® Core™ i7	Intel® My WiFi Technology (Intel® MWT)	×
Processor model *	i7-5700HQ	Intel® Anti-Theft Technology (Intel® AT)	×
Processor cores	4	Intel® Smart Response Technology	✓
Processor threads	8	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor boost frequency	3,5 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor frequency *	2,7 GHz	Intel® Turbo Boost Technology	2.0
System bus rate	5 GT/s		
Processor cache	6 MB		
Processor cache type	L3		
Processor socket	BGA 1364		
Processor lithography	14 nm		
Processor operating modes	32-bit, 64-bit		
Processor series	Intel Core i7-5700 Mobile Series		

Processor		Processor special features	
Processor codename	Broadwell	Intel® Small Business Advantage (Intel® SBA)	✓
Bus type	DMI2	Enhanced Intel SpeedStep Technology	✓
FSB Parity	✗	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Stepping	G0	Intel Clear Video Technology	✓
Thermal Design Power (TDP)	47 W	Intel® InTru™ 3D Technology	✓
Configurable TDP-down	37 W	Intel® Insider™	✓
Configurable TDP-down frequency	0,6 GHz	Intel® Quick Sync Video Technology	✓
Tjunction	105 °C	Intel Flex Memory Access	✓
Maximum number of PCI Express lanes	16	Intel® Smart Cache	✓
PCI Express slots version	3.0	Intel® AES New Instructions (Intel® AES-NI)	✓
PCI Express configurations	1x16, 2x4, 1x8, 2x8	Intel Trusted Execution Technology	✗
ECC supported by processor	✗	Intel Enhanced Halt State	✓
Memory		Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory *	8 GB	Intel Demand Based Switching	✗
Internal memory type	DDR3L-SDRAM	Intel® Secure Key	✓
Memory clock speed	1600 MHz	Intel TSX-NI	✗
Memory form factor	SO-DIMM	Intel Stable Image Platform Program (SIPP)	✗
Memory slots	2x SO-DIMM	Intel® OS Guard	✓
Maximum internal memory *	16 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Storage		Intel 64	✓
Total storage capacity *	1 TB	Execute Disable Bit	✓
Storage media *	HDD	Idle States	✓
Number of HDDs installed	1	Thermal Monitoring Technologies	✓
HDD capacity	1 TB	Processor package size	37.5 x 32 x 1.8 mm
HDD interface	SATA	Supported instruction sets	SSE4.2, AVX 2.0, SSE4.1
HDD speed	7200 RPM	Processor code	SR2BP
Optical drive type *	DVD Super Multi	CPU configuration (max)	1
Card reader integrated	✓	Embedded options available	✗
Compatible memory cards	SD, SDHC, SDXC	Graphics & IMC lithography	14 nm
Graphics		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics card model *	NVIDIA® GeForce® GTX 960M	Intel Identity Protection Technology version	1,00
Discrete graphics card memory	2 GB	Intel Smart Response Technology version	1,00
Discrete graphics memory type	GDDR5	Intel Stable Image Platform Program (SIPP) version	0,00
On-board graphics card *	✓	Intel Secure Key Technology version	1,00
Discrete graphics card *	✓	Intel Small Business Advantage (SBA) version	1,00
On-board graphics card family	Intel® HD Graphics	Intel TSX-NI version	0,00
On-board graphics card model *	Intel® HD Graphics 5600	Intel Virtualization Technology (VT-x)	✓
On-board graphics card base frequency	300 MHz	Intel Dual Display Capable Technology	✗
On-board graphics card dynamic frequency (max)	1050 MHz	Intel FDI Technology	✓
Maximum on-board graphics card memory	32 GB	Intel Rapid Storage Technology	✗
On-board graphics card DirectX version	11.2	Intel Fast Memory Access	✓
On-board graphics card OpenGL version	4.3	Processor ARK ID	87716
On-board graphics card ID	0x1612	Conflict-Free processor	✓
Number of discrete graphics cards installed	1	Battery	
Graphics card Open GL support	✓	Battery technology	Lithium-Ion (Li-Ion)
Audio		Number of battery cells	6
Audio system	Sound Blaster Cinema		
Speakers manufacturer	Dynaudio		
Built-in microphone	✓		
Camera			
Front camera	✓		
Front camera resolution	1280 x 720 pixels		

Camera		Battery	
Video capturing speed	30 fps	Battery capacity *	60 Wh
Network		Power	
Wi-Fi	✓	AC adapter power	150 W
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)	AC adapter frequency	50 - 60 Hz
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	DC-in jack	✓
Ethernet LAN	✓	Security	
Ethernet LAN data rates	10,1000,100 Mbit/s	Cable lock slot	✗
Bluetooth	✓	Weight & dimensions	
Bluetooth version	4.1	Width	383 mm
Ports & interfaces		Depth	260 mm
USB 2.0 ports quantity *	1	Height	27 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3	Weight *	2,4 kg
Ethernet LAN (RJ-45) ports	1	Packaging content	
HDMI ports quantity *	1	AC adapter included *	✓
HDMI version	1.4b	Cables included	AC
Mini DisplayPorts quantity	1	Manual	✓
DVI port	✗	Other features	
Headphone outputs	1	LightScribe	✗
S/PDIF out port	✓	3D	✗
Microphone in	✓	Intel® Virtualization Technology (Intel® VT)	VT-x, VT-d
Line-in	✓		

Catalog Object Cloud



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