



**MSI Gaming GP70 2PE Leopard Intel® Core™ i7 i7-4700HQ Laptop
43.9 cm (17.3") Full HD 8 GB DDR3L-SDRAM 1 TB HDD NVIDIA®
GeForce® GT 840M Wi-Fi 4 (802.11n) Windows 8 Black**

Brand : MSI

Product family: Gaming

Product code:
9S7-175A12-012

Product name : GP70 2PE
Leopard

Intel Core i7-4700HQ (6M Cache, 2.40 GHz), 17.3" Full HD (1920x1080) LED, 8GB DDR3, 1TB SATA HDD, DVD Super Multi, Intel HD Graphics 4600 + nVidia Geforce GT840M 2GB DDR3, Gigabit Ethernet, WLAN 802.11 b/g/n, Bluetooth 4.0, HD Webcam, Windows 8 64-bit

MSI Gaming GP70 2PE Leopard. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-4700HQ, Processor frequency: 2.4 GHz. Display diagonal: 43.9 cm (17.3"), 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 8. Product color: Black



Design		Keyboard	
Product type *	Laptop	Pointing device	Touchpad
Product color *	Black	Numeric keypad *	✓
Form factor *	Clamshell	Windows keys	✓
Market positioning	Gaming		
Display		Software	
Display diagonal *	43.9 cm (17.3")	Operating system architecture	64-bit
Display resolution *	1920 x 1080 pixels	Recovery operating system	Windows 8.1
Touchscreen *	✗	Operating system installed *	Windows 8
HD type	Full HD		
LED backlight	✓	Processor special features	
Native aspect ratio	16:9	Intel® Wireless Display (Intel® WiDi)	✓
Display surface	Matt	Intel® My WiFi Technology (Intel® MWT)	✓
Processor		Intel Smart Connect Technology	✗
Processor manufacturer *	Intel	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor family *	Intel® Core™ i7	Intel® Rapid Start Technology	✗
Processor generation	4th gen Intel® Core™ i7	Intel® Smart Response Technology	✗
Processor model *	i7-4700HQ	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor cores	4	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	8	Intel® Turbo Boost Technology	2.0
Processor boost frequency	3.4 GHz	Intel® Small Business Advantage (Intel® SBA)	✗
Processor frequency *	2.4 GHz	Intel® Matrix Storage Technology (Intel® MST)	✗
Processor cache	6 MB	Intel® High Definition Audio (Intel® HD Audio)	✗
Processor cache type	Smart Cache	Intel® Active Management Technology (Intel® AMT)	✗
Processor socket	BGA 1364	Enhanced Intel SpeedStep Technology	✓
Processor lithography	22 nm	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor operating modes	64-bit		
Processor series	Intel Core i7-4700 Mobile series		
Processor codename	Haswell		
Bus type	DMI2		
FSB Parity	✗		
Stepping	C0		
Thermal Design Power (TDP)	47 W		

Processor		Processor special features	
Tjunction	100 °C	Intel Clear Video Technology	✗
Maximum number of PCI Express lanes	16	Intel® InTru™ 3D Technology	✓
PCI Express slots version	3.0	Intel® Insider™	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® Quick Sync Video Technology	✓
ECC supported by processor	✗	Intel Flex Memory Access	✗
Memory		Intel® AES New Instructions (Intel® AES-NI)	✓
Internal memory *	8 GB	Intel Trusted Execution Technology	✗
Internal memory type	DDR3L-SDRAM	Intel Enhanced Halt State	✓
Memory clock speed	1600 MHz	Intel VT-x with Extended Page Tables (EPT)	✓
Memory form factor	SO-DIMM	Intel Demand Based Switching	✗
Memory slots	2x SO-DIMM	Intel® Secure Key	✓
Maximum internal memory *	16 GB	Intel TSX-NI	✗
Storage		Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Total storage capacity *	1 TB	Intel 64	✓
Storage media *	HDD	Execute Disable Bit	✓
Number of HDDs installed	1	Idle States	✓
HDD capacity	1 TB	Thermal Monitoring Technologies	✓
HDD interface	SATA	Processor package size	37.5 x 32 x 1.6 mm
HDD speed	5400 RPM	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
HDD size	2.5"	Processor code	SR15E
Optical drive type *	DVD Super Multi	CPU configuration (max)	1
Card reader integrated	✓	Embedded options available	✗
Compatible memory cards	SD	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Graphics		Intel Identity Protection Technology version	1.00
Discrete graphics card model *	NVIDIA® GeForce® GT 840M	Intel Secure Key Technology version	1.00
Discrete graphics card memory	2 GB	Intel TSX-NI version	0.00
Discrete graphics memory type	GDDR3	Intel Virtualization Technology (VT-x)	✓
On-board graphics card *	✓	Intel Dual Display Capable Technology	✗
Discrete graphics card *	✓	Intel FDI Technology	✓
On-board graphics card family	Intel® HD Graphics	Intel Rapid Storage Technology	✗
On-board graphics card model *	Intel® HD Graphics 4600	Intel Fast Memory Access	✗
On-board graphics card base frequency	400 MHz	Processor ARK ID	75116
On-board graphics card dynamic frequency (max)	1200 MHz	Conflict-Free processor	✓
Maximum on-board graphics card memory	1.74 GB	Battery	
On-board graphics card DirectX version	11.2/12	Battery technology	Lithium Polymer (LiPo)
On-board graphics card ID	0x416	Number of battery cells	6
Audio		Battery capacity	4400 mAh
Audio system	Sound Blaster Cinema	Power	
Number of built-in speakers	2	AC adapter power	120 W
Built-in microphone	✓	DC-in jack	✓
Camera		Security	
Front camera	✓	Cable lock slot	✓
Front camera resolution	1280 x 720 pixels	Cable lock slot type	Kensington
Network		Weight & dimensions	
Wi-Fi	✓	Width	418 mm
Top Wi-Fi standard *	Wi-Fi 4 (802.11n)	Depth	269.3 mm
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Height	39 mm
Ethernet LAN	✓	Weight *	2.7 kg
Ethernet LAN data rates	10,100,1000 Mbit/s		
Bluetooth	✓		
Bluetooth version	4.0		

Ports & interfaces		Packaging content	
USB 2.0 ports quantity *	2	AC adapter included *	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Manual	✓
Ethernet LAN (RJ-45) ports	1	Power cord included	✓
HDMI ports quantity *	1	Other features	
DVI port	✗	Disc types supported	CD, DVD
VGA (D-Sub) ports quantity	1	Maximum internal memory (64-bit)	16 GB
Headphone outputs	1	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
S/PDIF out port	✗		
Microphone in	✓		
Docking connector	✗		
ExpressCard slot	✗		
CardBus PCMCIA slot type	✗		
SmartCard slot	✗		
Performance			
Motherboard chipset	Intel® HM86		

Catalog Object Cloud



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