



**MSI Gaming GP70 2PE(Leopard)-091LU Intel® Core™ i7 i7-4710HQ
Laptop 43,9 cm (17.3") Full HD 8 GB DDR3L-SDRAM 750 GB HDD
NVIDIA® GeForce® GT 840M Windows 8.1 Hitam**

Brand : MSI

Product family: Gaming

Product code: GP70
2PE-091LU

Product name : GP70
2PE(Leopard)-091LU



MSI Gaming GP70 2PE(Leopard)-091LU. Jenis produk: Laptop, Faktor bentuk: Kulit kerang. Keluarga prosesor: Intel® Core™ i7, Model prosesor: i7-4710HQ, Frekuensi prosesor: 2,5 GHz. Diagonal layar: 43,9 cm (17.3"), Tipe HD: Full HD, Resolusi layar: 1920 x 1080 piksel. Memori internal: 8 GB, Tipe memori internal: DDR3L-SDRAM. Total kapasitas penyimpanan: 750 GB, Media penyimpanan: HDD, Tipe drive optikal: DVD Super Multi. Sistem operasi yang terpasang: Windows 8.1. Warna produk: Hitam



Desain		Port & antarmuka	
Jenis produk *	Laptop	Jumlah port HDMI *	1
Warna produk *	Hitam	Soket DVI	✗
Faktor bentuk *	Kulit kerang	Jumlah soket VGA (D-Sub)	1
Pemosisian pasar	Gaming	Suara dari Headphone	1
Layar		Port keluar S/PDIF	✗
Diagonal layar *	43,9 cm (17.3")	Mikrofon masuk	✓
Resolusi layar *	1920 x 1080 piksel	Konektor dok	✗
Layar sentuh *	✗	Slot ExpressCard	✗
Tipe HD	Full HD	Tipe slot CardBus PCMCIA	✗
Lampu belakang LED	✓	Slot SmartCard	✗
Rasio aspek native	16:9	Performa	
Permukaan Tampilan	Matte	Chipset papan induk	Intel® HM86
Prosesor		Keyboard	
Produsen prosesor *	Intel	Alat penunjuk	Touchpad
Keluarga prosesor *	Intel® Core™ i7	Tombol angka *	✓
Generasi prosesor	Intel® Core™ i7 generasi ke-4	Perangkat lunak	
Model prosesor *	i7-4710HQ	Arsitektur sistem operasi	64-bit
Inti prosesor	4	Sistem operasi yang terpasang *	Windows 8.1
Thread prosesor	8	Fitur khusus prosesor	
Frekuensi pendorong prosesor	3,5 GHz	Intel® Wireless Display (Intel® WiDi)	✓
Frekuensi prosesor *	2,5 GHz	Teknologi Intel® My WiFi (Intel® MWT)	✗
Kecepatan bus sistem	5 GT/dt	Teknologi Intel® Anti-Theft (Intel® AT)	✓
Cache prosesor	6 MB	Teknologi Intel® Identity Protection (Intel® IPT)	✓
Tipe cache Prosesor	Smart Cache	Teknologi Intel® Hyper Threading (Intel® HT Technology)	✓
Soket prosesor	BGA 1364	Teknologi Intel® Turbo Boost	2.0
Litografi prosesor	22 nm	Teknologi SpeedStep Intel® yang diperbaharui	✓
Modus pengoperasian prosesor	64-bit		
Seri Prosesor	Intel Core i7-4700 Mobile series		
Nama kode prosesor	Haswell		
Bus type	DMI2		
Paritas FSB	✗		
Pelangkahan	C0		

Prosesor		Fitur khusus prosesor	
Thermal Design Power (TDP)	47 W	Teknologi Intel® Clear Video HD (Intel® CVT HD)	✓
Tjunction	100 °C	Teknologi video Terang Intel®	✗
Jumlah maksimal jalur Ekspres PCI	16	Teknologi Intel® InTru™ 3D	✓
Versi slot PCI Express	3.0	Orang dalam Intel® (Intel® Insider™)	✓
Konfigurasi PCI Express	1x16, 2x8, 1x8+2x4	Teknologi Intel® Quick Sync Video	✓
EEC didukung oleh prosesor	✗	Akses Memori Fleks Intel®	✗
Memori		Cache Pintar Intel®	✓
Memori internal *	8 GB	Instruksi Baru AES Intel® (Intel® AES-NI)	✓
Tipe memori internal	DDR3L-SDRAM	Teknologi Eksekusi Terpercaya Intel®	✗
Kecepatan memori	1600 MHz	Intel® Enhanced Halt State	✓
Faktor bentuk memori	SO-DIMM	Intel® VT-x dengan Tabel Halaman Ekstensi (EPT)	✓
Slot memori	2x SO-DIMM	Saklar Berbasis Permintaan Intel®	✗
Memori internal maksimal *	16 GB	Intel® Secure Key	✓
media penyimpanan		Intel® TSX-NI	✗
Total kapasitas penyimpanan *	750 GB	Teknologi Video Jelas Intel® untuk MID (Intel® CVT for MID)	✗
Media penyimpanan *	HDD	Intel® 64	✓
Jumlah hard disk yang terpasang	1	Bit Nonaktif Eksekusi	✓
Kapasitas harddisk	750 GB	Kedaaan Diam	✓
Antarmuka harddisk	SATA	Teknologi Monitor Termal	✓
Kecepatan Hard drive	7200 RPM	Ukuran paket prosesor	37.5 x 32 x 1.6 mm
Tipe drive optikal *	DVD Super Multi	Set instruksi yang didukung	AVX 2.0, SSE4.1, SSE4.2
Pembaca kartu terintegrasi	✓	Kode prosesor	SR1PX
Kartu memori yang kompatibel	SD	Konfigurasi CPU (maks)	1
Grafik		Pilihan Tertanam Tersedia	✗
Model adaptor grafis diskrit *	NVIDIA® GeForce® GT 840M	Intel® Virtualization Technology untuk Directed I/O (VT-d)	✓
Memori adaptor grafik berlainan	2 GB	Intel Identity Protection Technology version	1,00
Tipe memori adaptor grafis diskrit	GDDR3	Intel Secure Key Technology version	1,00
Adaptor grafis pada papan induk *	✓	Versi TSX-NI Intel®	0,00
Adaptor grafis diskrit *	✓	Teknologi Virtualisasi Intel® (VT-x)	✓
Keluarga adaptor VGA internal	Intel® HD Graphics	Kemampuan teknologi Intel® Dual Display	✗
Model adaptor grafis pada papan induk *	Intel® HD Graphics 4600	Teknologi Intel® FDI	✓
Frekuensi basis adapter grafis on-board	400 MHz	Teknologi Intel® Rapid Storage	✗
Frekuensi dinamis adapter grafis On-board (maks)	1200 MHz	Akses Memori Cepat Intel®	✗
Memori adaptor grafik di kendaraan maksimal	1,74 GB	ID ARK prosesor	78930
Versi DirectX adaptor grafik di kendaraan	12.0	Prosesor tanpa gangguan	✓
Versi OpenGL adaptor grafik di kendaraan	4.3	Baterai	
ID adaptor grafik di kendaraan	0x416	Teknologi baterai	Lithium-Ion (Li-Ion)
Audio		Jumlah sel baterai	6
Sistem audio	Sound Blaster Cinema	Kapasitas baterai	4400 mAj
Jumlah pengeras suara terpasang	2	Daya	
Mikrofon terpasang	✓	Daya adaptor AC	120 W
Kamera		DC-in jack	✓
Kamera depan	✓	Keamanan	
Resolusi Kamera Depan	1280 x 720 piksel	Slot kunci kabel	✓
Kecepatan menangkap video	30 fpd	Tipe slot kunci Kabel	Kensington
Jaringan		Berat dan dimensi	
Wi-Fi	✓	Panjang	418 mm
Standar Wi-Fi	Wi-Fi 5 (802.11ac)	Lebar	269,3 mm
Ethernet LAN	✓	Tinggi	39 mm
Kecepatan data LAN ethernet	10,100,1000 Mbit/d		
Bluetooth	✓		
Versi bluetooth	4.0		

Port & antarmuka		Berat dan dimensi	
Jumlah soket USB 2.0 *	2	Berat *	2,7 kg
Kuantitas port Tipe A USB 3.2 Gen 1 (3.1 Gen 1) *	2	Isi kemasan	
Soket LAN ethernet (RJ-45)	1	Adaptor AC disertakan *	✓
		Fitur lainnya	
		LightScribe	✗
		Kompabilitas 3D	✗



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