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MSI Prestige P65 8RE-056IT Creator Intel® Core™ i7 i7-8750H □□□□ 39.6 □□. (15.6 □□□□) Full HD 16 GB DDR4-SDRAM 512 GB SSD NVIDIA® GeForce® GTX 1060 Max-Q Wi-Fi 5 (802.11ac) Windows 10 Home □□□



Brand : MSI Product family: Prestige

Product name : P65 8RE-056IT Creator

Product code: REFURBISHED-056



Design		Network	
Product type *	Laptop	Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)
Product colour * Form factor *	Grey Clamshell	Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac)
Market positioning	Gaming	Antenna type	2x2
Refurbished	✓	Ethernet LAN	✓
Display		Ethernet LAN data rates	10,100,1000 Mbit/s
Display diagonal *	39.6 cm (15.6")	Bluetooth	✓
Display resolution *	1920 x 1080 pixels	Ports & interfaces	
Touchscreen * HD type	X Full HD	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
LED backlight	ruii no ✓	USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Native aspect ratio	16:9	Ethernet LAN (RJ-45) ports	1
Dual-screen	×	HDMI ports quantity *	1
Display response rise/fall	7 ms	Mini DisplayPorts quantity	1
Maximum refresh rate	144 Hz	Headphone outputs	1
NTSC coverage (typical)	72%	Microphone in	✓
sRGB coverage (typical)	100%	Performance	
Processor		Motherboard chipset	Intel® HM370
Processor manufacturer *	Intel	Keyboard	
Processor generation	Intel® Core™ i7 8th gen Intel® Core™ i7	Pointing device	Touchpad
Processor generation Processor model *	i7-8750H	Numeric keypad *	×
Processor cores	6	Keyboard backlit	✓
Processor threads	12	Keyboard backlit colour	White
Processor boost frequency	4.1 GHz	Windows keys	✓
Processor frequency *	2.2 GHz	Software	
System bus rate	8 GT/s		CALL
Processor cache	9 MB	Operating system architecture	64-bit
Processor cache type	Smart Cache	Operating system installed *	Windows 10 Home
Processor socket	BGA 1440	Processor special features	
Processor lithography	14 nm	Intel® My WiFi Technology (Intel®	1
Processor operating modes	64-bit	MWT)	-
Processor codename	Coffee Lake	Intel® Identity Protection Technology (Intel® IPT)	✓
Bus type	DMI	reciniology (interes if 1)	

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Processor		Processor special features	
Stepping	U0	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Thermal Design Power (TDP)	45 W	Intel® Turbo Boost Technology	2.0
Configurable TDP-down	35 W	Enhanced Intel SpeedStep	
Configurable TDP-down frequency	1.7 GHz 100 °C	Technology	•
Tjunction Maximum number of PCI Express		Intel® Clear Video HD Technology	✓
lanes	16	(Intel® CVT HD)	
PCI Express slots version	3.0	Intel Clear Video Technology	•
PCI Express configurations	1x16, 1x8+2x4, 2x8	Intel® InTru™ 3D Technology	/
Memory		Intel® Quick Sync Video Technology	/
Internal memory *	16 GB	Intel Flex Memory Access	✓
Internal memory type	DDR4-SDRAM	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory clock speed	2666 MHz	Intel Trusted Execution Technology	×
Memory form factor	SO-DIMM	Intel Enhanced Halt State	` <u>'</u>
Memory layout (slots x size)	2 x 8 GB	Intel VT-x with Extended Page	•
Memory slots	2x SO-DIMM	Tables (EPT)	✓
Maximum internal memory *	32 GB	Intel® Secure Key	✓
Storage		Intel TSX-NI	×
Total storage capacity *	512 GB	Intel Stable Image Platform Program	x
Storage media *	SSD	(SIPP)	
Total SSDs capacity	512 GB	Intel® OS Guard	✓
Number of SSDs installed	1 512 CP	Intel Software Guard Extensions (Intel SGX)	✓
SSD capacity SSD interface	512 GB	Intel® Clear Video Technology for	
SSD form factor	PCI Express 3.0 M.2	Mobile Internet Devices (Intel CVT	✓
Optical drive type *	X	for MID)	
Card reader integrated	×	Intel 64	•
Compatible memory cards	Not supported	Execute Disable Bit	/
	Not supported	Idle States	✓
Graphics	ANVIDIA O C. F O CTV 1000 M.	Thermal Monitoring Technologies	✓
Discrete graphics card model *	NVIDIA® GeForce® GTX 1060 Max- Q	Processor package size	42 x 28 mm
Discrete graphics card memory	6 GB	Supported instruction sets Processor code	AVX 2.0, SSE4.1, SSE4.2 SR3YY
Discrete graphics memory type	GDDR5	CPU configuration (max)	1
On-board graphics card *	✓	Embedded options available	X
Discrete graphics card *	✓	Intel Virtualization Technology for	
On-board graphics card family	Intel® UHD Graphics	Directed I/O (VT-d)	✓
	1 1 10 11110 0 11 600		
On-board graphics card model *	Intel® UHD Graphics 630	Intel Identity Protection Technology	1.00
On-board graphics card base	350 MHz	version	
On-board graphics card base frequency	350 MHz		
On-board graphics card base	·	version Intel Stable Image Platform Program	0.00
On-board graphics card base frequency On-board graphics card dynamic frequency (max) Maximum on-board graphics card	350 MHz	version Intel Stable Image Platform Program (SIPP) version Intel Secure Key Technology version Intel TSX-NI version	0.00
On-board graphics card base frequency On-board graphics card dynamic frequency (max) Maximum on-board graphics card memory	350 MHz 1100 MHz	version Intel Stable Image Platform Program (SIPP) version Intel Secure Key Technology version Intel TSX-NI version Intel Virtualization Technology (VT-	0.00 1.00
On-board graphics card base frequency On-board graphics card dynamic frequency (max) Maximum on-board graphics card	350 MHz 1100 MHz	version Intel Stable Image Platform Program (SIPP) version Intel Secure Key Technology version Intel TSX-NI version Intel Virtualization Technology (VT-x)	0.00 1.00 0.00
On-board graphics card base frequency On-board graphics card dynamic frequency (max) Maximum on-board graphics card memory On-board graphics card DirectX version On-board graphics card OpenGL	350 MHz 1100 MHz 64 GB 12.0	version Intel Stable Image Platform Program (SIPP) version Intel Secure Key Technology version Intel TSX-NI version Intel Virtualization Technology (VT-x) Processor ARK ID	0.00 1.00 0.00
On-board graphics card base frequency On-board graphics card dynamic frequency (max) Maximum on-board graphics card memory On-board graphics card DirectX version On-board graphics card OpenGL version	350 MHz 1100 MHz 64 GB 12.0 4.5	version Intel Stable Image Platform Program (SIPP) version Intel Secure Key Technology version Intel TSX-NI version Intel Virtualization Technology (VT-x) Processor ARK ID Battery	0.00 1.00 0.00 134906
On-board graphics card base frequency On-board graphics card dynamic frequency (max) Maximum on-board graphics card memory On-board graphics card DirectX version On-board graphics card OpenGL version On-board graphics card ID	350 MHz 1100 MHz 64 GB 12.0 4.5 0x3E9B	version Intel Stable Image Platform Program (SIPP) version Intel Secure Key Technology version Intel TSX-NI version Intel Virtualization Technology (VT-x) Processor ARK ID Battery Battery technology	0.00 1.00 0.00 ✓ 134906 Lithium Polymer (LiPo)
On-board graphics card base frequency On-board graphics card dynamic frequency (max) Maximum on-board graphics card memory On-board graphics card DirectX version On-board graphics card OpenGL version	350 MHz 1100 MHz 64 GB 12.0 4.5	version Intel Stable Image Platform Program (SIPP) version Intel Secure Key Technology version Intel TSX-NI version Intel Virtualization Technology (VT-x) Processor ARK ID Battery Battery Battery technology Number of battery cells	0.00 1.00 0.00 ✓ 134906 Lithium Polymer (LiPo) 4
On-board graphics card base frequency On-board graphics card dynamic frequency (max) Maximum on-board graphics card memory On-board graphics card DirectX version On-board graphics card OpenGL version On-board graphics card ID Number of discrete graphics cards	350 MHz 1100 MHz 64 GB 12.0 4.5 0x3E9B	version Intel Stable Image Platform Program (SIPP) version Intel Secure Key Technology version Intel TSX-NI version Intel Virtualization Technology (VT-x) Processor ARK ID Battery Battery technology Number of battery cells Battery capacity *	0.00 1.00 0.00 ✓ 134906 Lithium Polymer (LiPo)
On-board graphics card base frequency On-board graphics card dynamic frequency (max) Maximum on-board graphics card memory On-board graphics card DirectX version On-board graphics card OpenGL version On-board graphics card ID Number of discrete graphics cards installed	350 MHz 1100 MHz 64 GB 12.0 4.5 0x3E9B	version Intel Stable Image Platform Program (SIPP) version Intel Secure Key Technology version Intel TSX-NI version Intel Virtualization Technology (VT-x) Processor ARK ID Battery Battery technology Number of battery cells Battery capacity * Power	0.00 1.00 0.00 ✓ 134906 Lithium Polymer (LiPo) 4 82 Wh
On-board graphics card base frequency On-board graphics card dynamic frequency (max) Maximum on-board graphics card memory On-board graphics card DirectX version On-board graphics card OpenGL version On-board graphics card ID Number of discrete graphics cards installed CUDA Audio	350 MHz 1100 MHz 64 GB 12.0 4.5 0x3E9B 1 ✓	version Intel Stable Image Platform Program (SIPP) version Intel Secure Key Technology version Intel TSX-NI version Intel Virtualization Technology (VT-x) Processor ARK ID Battery Battery Battery technology Number of battery cells Battery capacity * Power AC adapter power	0.00 1.00 0.00 134906 Lithium Polymer (LiPo) 4 82 Wh
On-board graphics card base frequency On-board graphics card dynamic frequency (max) Maximum on-board graphics card memory On-board graphics card DirectX version On-board graphics card OpenGL version On-board graphics card ID Number of discrete graphics cards installed CUDA Audio Number of built-in speakers	350 MHz 1100 MHz 64 GB 12.0 4.5 0x3E9B	version Intel Stable Image Platform Program (SIPP) version Intel Secure Key Technology version Intel TSX-NI version Intel Virtualization Technology (VT-x) Processor ARK ID Battery Battery technology Number of battery cells Battery capacity * Power AC adapter power DC-in jack	0.00 1.00 0.00 ✓ 134906 Lithium Polymer (LiPo) 4 82 Wh
On-board graphics card base frequency On-board graphics card dynamic frequency (max) Maximum on-board graphics card memory On-board graphics card DirectX version On-board graphics card OpenGL version On-board graphics card ID Number of discrete graphics cards installed CUDA Audio	350 MHz 1100 MHz 64 GB 12.0 4.5 0x3E9B 1	version Intel Stable Image Platform Program (SIPP) version Intel Secure Key Technology version Intel TSX-NI version Intel Virtualization Technology (VT-x) Processor ARK ID Battery Battery technology Number of battery cells Battery capacity * Power AC adapter power DC-in jack Weight & dimensions	0.00 1.00 0.00 ✓ 134906 Lithium Polymer (LiPo) 4 82 Wh 150 W ✓
On-board graphics card base frequency On-board graphics card dynamic frequency (max) Maximum on-board graphics card memory On-board graphics card DirectX version On-board graphics card OpenGL version On-board graphics card ID Number of discrete graphics cards installed CUDA Audio Number of built-in speakers Speaker power Built-in microphone	350 MHz 1100 MHz 64 GB 12.0 4.5 0x3E9B 1	version Intel Stable Image Platform Program (SIPP) version Intel Secure Key Technology version Intel TSX-NI version Intel Virtualization Technology (VT-x) Processor ARK ID Battery Battery Battery technology Number of battery cells Battery capacity * Power AC adapter power DC-in jack Weight & dimensions Width	0.00 1.00 0.00 134906 Lithium Polymer (LiPo) 4 82 Wh 150 W 157.7 mm
On-board graphics card base frequency On-board graphics card dynamic frequency (max) Maximum on-board graphics card memory On-board graphics card DirectX version On-board graphics card OpenGL version On-board graphics card ID Number of discrete graphics cards installed CUDA Audio Number of built-in speakers Speaker power Built-in microphone Camera	350 MHz 1100 MHz 64 GB 12.0 4.5 0x3E9B 1	version Intel Stable Image Platform Program (SIPP) version Intel Secure Key Technology version Intel TSX-NI version Intel Virtualization Technology (VT-x) Processor ARK ID Battery Battery Battery technology Number of battery cells Battery capacity * Power AC adapter power DC-in jack Weight & dimensions Width Depth	0.00 1.00 0.00 134906 Lithium Polymer (LiPo) 4 82 Wh 150 W 357.7 mm 247.7 mm
On-board graphics card base frequency On-board graphics card dynamic frequency (max) Maximum on-board graphics card memory On-board graphics card DirectX version On-board graphics card OpenGL version On-board graphics card ID Number of discrete graphics cards installed CUDA Audio Number of built-in speakers Speaker power Built-in microphone Camera Front camera	350 MHz 1100 MHz 64 GB 12.0 4.5 0x3E9B 1 2 2 2 W	version Intel Stable Image Platform Program (SIPP) version Intel Secure Key Technology version Intel TSX-NI version Intel Virtualization Technology (VT-x) Processor ARK ID Battery Battery technology Number of battery cells Battery capacity * Power AC adapter power DC-in jack Weight & dimensions Width Depth Height	0.00 1.00 0.00 ✓ 134906 Lithium Polymer (LiPo) 4 82 Wh 150 W ✓ 357.7 mm 247.7 mm 17.9 mm
On-board graphics card base frequency On-board graphics card dynamic frequency (max) Maximum on-board graphics card memory On-board graphics card DirectX version On-board graphics card OpenGL version On-board graphics card ID Number of discrete graphics cards installed CUDA Audio Number of built-in speakers Speaker power Built-in microphone Camera	350 MHz 1100 MHz 64 GB 12.0 4.5 0x3E9B 1	version Intel Stable Image Platform Program (SIPP) version Intel Secure Key Technology version Intel TSX-NI version Intel Virtualization Technology (VT-x) Processor ARK ID Battery Battery Battery technology Number of battery cells Battery capacity * Power AC adapter power DC-in jack Weight & dimensions Width Depth	0.00 1.00 0.00 134906 Lithium Polymer (LiPo) 4 82 Wh 150 W 157.7 mm 247.7 mm

Camera		Packaging content
Video capturing speed	30 fps	AC adapter included * ✓
Network		Other features
Wi-Fi	✓	3D X



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