



HP Z220 Intel® Core™ i7 i7-3770 4 GB DDR3-SDRAM Windows 7 Professional Minitower Workstation

Brand : HP

Product code: WM463EA

Product name : Z220

Intel Core i7-3770 3.4/3.9 GHz, 4096MB DDR3 RAM, 500GB SATA HDD, SuperMulti DVD, Intel HD Graphics 4000, Gigabit Ethernet, 400W, Windows 7 Professional 64

HP Z220. Processor frequency: 3,4 GHz, Processor family: Intel® Core™ i7, Processor model: i7-3770. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM, Memory clock speed: 1600 MHz. Optical drive type: DVD Super Multi. On-board graphics card model: Intel® HD Graphics 4000. Operating system installed: Windows 7 Professional, Operating system architecture: 64-bit. Power supply: 400 W. Chassis type: Minitower. Product type: Workstation. Weight: 10,4 kg

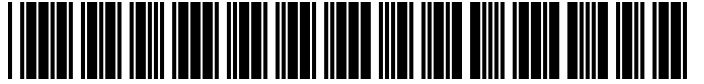


Processor		Performance	
Processor manufacturer *	Intel	Product type *	Workstation
Processor family *	Intel® Core™ i7	Software	
Processor generation	3rd gen Intel® Core™ i7	Operating system architecture	64-bit
Processor model *	i7-3770	Operating system installed *	Windows 7 Professional
Processor cores	4	Drivers included	✓
Processor threads	8	Processor special features	
Processor boost frequency	3,9 GHz	Intel® Wireless Display (Intel® WiDi)	✓
Processor frequency *	3,4 GHz	Intel 64	✓
Processor socket	LGA 1155 (Socket H2)	Enhanced Intel SpeedStep Technology	✓
Processor cache	8 MB	Embedded options available	✓
Processor cache type	Smart Cache	Intel® InTru™ 3D Technology	✓
System bus rate	5 GT/s	Intel® Insider™	✓
Bus type	DMI	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
FSB Parity	✗	Intel Clear Video Technology	✗
Processor lithography	22 nm	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes	64-bit	Intel TSX-NI	✗
Processor series	Intel Core i7-3700 Desktop series	Idle States	✓
Processor codename	Ivy Bridge	Thermal Monitoring Technologies	✓
Thermal Design Power (TDP)	77 W	Intel® AES New Instructions (Intel® AES-NI)	✓
Tcase	67,4 °C	Intel® Secure Key	✓
Tjunction	105 °C	Intel Trusted Execution Technology	✓
PCI Express slots version	3.0		
PCI Express configurations	1x8, 1x16, 2x4, 2x8		
Number of processors installed	1		
Stepping	E1		
CPU multiplier (bus/core ratio)	34		

Processor		Processor special features	
Maximum internal memory supported by processor	32 GB	Execute Disable Bit	✓
Memory types supported by processor	DDR3-SDRAM	Intel FDI Technology	✓
Memory clock speeds supported by processor	1333,1600 MHz	Intel Flex Memory Access	✓
Memory bandwidth supported by processor (max)	25,6 GB/s	Intel Fast Memory Access	✓
ECC supported by processor	✗	Intel Enhanced Halt State	✓
Memory		Intel Demand Based Switching	✗
		Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
		Processor package size	37.5 x 37.5 mm
		Supported instruction sets	AVX, SSE4.1, SSE4.2
		CPU configuration (max)	1
		Graphics & IMC lithography	22 nm
		Thermal solution specification	PCG 2011D
Storage		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 TSX-NI version	0,00
		Intel Dual Display Capable Technology	✗
		Intel Rapid Storage Technology	✗
Graphics		Processor ARK ID	65719
		Intel® Turbo Boost Technology	2.0
		Intel® Hyper Threading Technology (Intel® HT Technology)	✓
		Intel® Quick Sync Video Technology	✓
		Intel® My WiFi Technology (Intel® MWT)	✗
		Intel® Identity Protection Technology (Intel® IPT)	✓
		Intel® Anti-Theft Technology (Intel® AT)	✓
Ports & interfaces		Conflict-Free processor	✓
		Power	
		Power supply *	400 W
		Sustainability	
		Sustainability certificates	ENERGY STAR
		Weight & dimensions	
		Width *	178 mm
Expansion slots		Depth *	455 mm
		Height *	447 mm
		Weight *	10,4 kg
		Display	
		Display included *	✗
		Other features	
		External drive bays	3 x 5.25"
Design		Internal drive bays	3 x 3.5"
		Networking features	Gigabit Ethernet (10/100/1000)
		Graphics card family	Intel
Performance		Graphics card	HD Graphics 4000
		Motherboard chipset	Intel® C216
		Audio system	HD



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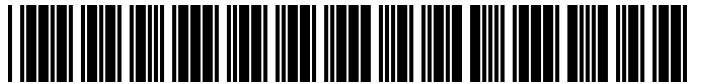
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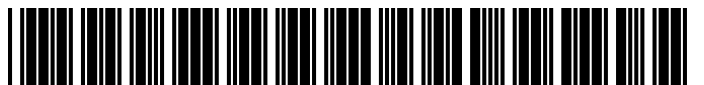
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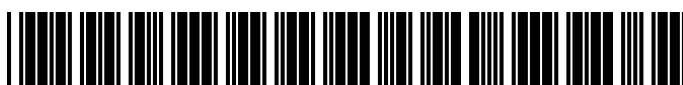
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