



HP Z220 i7-3770 Mini Tower Intel® Core™ i7 4 GB DDR3-SDRAM 500 GB HDD Windows 8 Pro Workstation Black

Brand : HP

Product code: E2A92LT

Product name : Z220

Intel Core i7-3770 3.4/3.9 GHz, 4GB DDR3 RAM, 500GB SATA HDD, Intel HD Graphics 4000, DVD±RW, Gigabit Ethernet, RAID, Windows 8 Pro 64-bit/Windows 7 Professional 64-bit
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. Total storage capacity: 500 GB, Storage media: HDD, Optical drive type: DVD Super Multi DL. On-board graphics card model: Intel® HD Graphics 4000. Operating system installed: Windows 8 Pro, Operating system architecture: 64-bit. Power supply: 400 W. Chassis type: Mini Tower. Product type: Workstation. Product colour: Black



Processor		Design	
Processor manufacturer *	Intel	Country of origin	China
Processor generation	3rd gen Intel® Core™ i7	Performance	
Processor model *	i7-3770	Motherboard chipset	Intel® C216
Processor family *	Intel® Core™ i7	Product type *	Workstation
Processor cores	4	Software	
Processor frequency *	3.4 GHz	Operating system installed *	Windows 8 Pro
Processor boost frequency	3.9 GHz	Operating system architecture	64-bit
Processor socket	LGA 1155 (Socket H2)	Recovery operating system	Windows 7 Professional
Processor cache	8 MB	Processor special features	
Processor cache type	Smart Cache	Intel® Small Business Advantage (Intel® SBA)	✗
Processor threads	8	Intel® Wireless Display (Intel® WiDi)	✓
System bus rate	5 GT/s	Intel 64	✓
Bus type	DMI	Enhanced Intel SpeedStep Technology	✓
FSB Parity	✗	Embedded options available	✓
Processor lithography	22 nm	Intel® InTru™ 3D Technology	✓
Processor operating modes	64-bit	Intel® Insider™	✓
Processor series	Intel Core i7-3700 Desktop series	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor codename	Ivy Bridge	Intel Clear Video Technology	✗
Thermal Design Power (TDP)	77 W	Intel VT-x with Extended Page Tables (EPT)	✓
Tcase	67.4 °C		
Tjunction	105 °C		
PCI Express slots version	3.0		
PCI Express configurations	1x8, 1x16, 2x4, 2x8		
Number of processors installed	1		

Processor		Processor special features	
Stepping	E1	Intel TSX-NI	✗
CPU multiplier (bus/core ratio)	34	Idle States	✓
Maximum internal memory supported by processor	32 GB	Thermal Monitoring Technologies	✓
Memory types supported by processor	DDR3-SDRAM	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory clock speeds supported by processor	1333,1600 MHz	Intel® Secure Key	✓
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel Trusted Execution Technology	✓
ECC supported by processor	✗	Execute Disable Bit	✓
Memory		Intel FDI Technology	✓
Internal memory *	4 GB	Intel Flex Memory Access	✓
Maximum internal memory *	32 GB	Intel Fast Memory Access	✓
Internal memory type	DDR3-SDRAM	Intel Enhanced Halt State	✓
Memory slots	4x DIMM	Intel Demand Based Switching	✗
Memory channels	Dual-channel	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Storage		Processor package size	37.5 x 37.5 mm
Card reader integrated	✓	Supported instruction sets	AVX, SSE4.1, SSE4.2
Total storage capacity *	500 GB	CPU configuration (max)	1
Storage media *	HDD	Graphics & IMC lithography	22 nm
Optical drive type *	DVD Super Multi DL	Thermal solution specification	PCG 2011D
Number of HDDs installed	1	Intel Virtualization Technology for Directed I/O (VT-d)	✓
HDD capacity	500 GB	Intel Identity Protection Technology version	1.00
HDD interface	SATA	Intel Secure Key Technology version	1.00
RAID support	✓	Intel Virtualization Technology (VT-x)	✓
RAID levels	0, 1	Intel TSX-NI version	0.00
Graphics		Intel Dual Display Capable Technology	✗
Discrete graphics card model *	Not available	Intel Rapid Storage Technology	✗
On-board graphics card *	✓	Processor ARK ID	65719
On-board graphics card family	Intel® HD Graphics	Intel® Smart Response Technology	✗
On-board graphics card model *	Intel® HD Graphics 4000	Intel® Rapid Start Technology	✗
On-board graphics card base frequency	650 MHz	Intel® Turbo Boost Technology	2.0
On-board graphics card dynamic frequency (max)	1150 MHz	Intel Smart Connect Technology	✗
Number of displays supported (on-board graphics)	3	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
On-board graphics card ID	0x162	Intel® Quick Sync Video Technology	✓
Network		Intel® My WiFi Technology (Intel® MWT)	✗
Ethernet LAN *	✓	Intel® Identity Protection Technology (Intel® IPT)	✓
Ethernet LAN data rates	10,100,1000 Mbit/s	Intel® Anti-Theft Technology (Intel® AT)	✓
Cabling technology	10/100/1000Base-T(X)	Conflict-Free processor	✓
Wi-Fi *	✗	Power	
Ports & interfaces		Power supply *	400 W
USB 2.0 ports quantity *	5	Power supply input voltage	110 - 220 V
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Weight & dimensions	
DVI port	✓	Width *	178 mm
DisplayPorts quantity	1	Depth *	455 mm
PS/2 ports quantity	2	Height *	447 mm
Ethernet LAN (RJ-45) ports	1	Weight *	11.6 kg
Microphone in	✓	Packaging content	
Headphone outputs	1	Display included *	✗
Line-out	✓	Mouse included	✗
Line-in	✓	Keyboard included	✗
DC-in jack	✓	Features	
Expansion slots		Images Type Map	✗
PCI Express x1 slots	2		
PCI Express x8 slots	1		

Expansion slots		Other features	
PCI Express x16 slots	2	Optical drives quantity	1
PCI slots	2		
Design			
Chassis type *	Mini Tower		
Placement supported	Vertical		
Water cooling system	✘		
Number of 3.5" bays	3		
Number of 5.25" bays	3		
Product colour *	Black		

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