HP Z210 SFF + ZR2240w Intel® Core™ i3 i3-2120 4 GB DDR3-SDRAM Windows 7 Professional Workstation

Brand : HP

Product code: KK777ET#ABF*KIT

Product name : Z210 SFF + ZR2240w

Intel Core i3-2120 (3.3GHz, 3MB L3), 4GB DDR3, 500GB 7200 rpm SATA, SuperMulti DVD±RW, Windows 7 Professional 64 + ZR2240w 21.5-inch LED Backlit IPS Monitor (XW475AT)
HP Z210 SFF + ZR2240w. Processor frequency: 3.3 GHz, Processor family: Intel® Core™ i3, Processor model: i3-2120. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM, Memory clock speed: 1333 MHz. Optical drive type: DVD Super Multi. On-board graphics card model: Intel® HD Graphics 2000. Operating system installed: Windows 7 Professional, Operating system architecture: 64-bit. Power supply: 240 W. Chassis type: SFF. Product type: Workstation. Weight: 7.6 kg

Processor	
Processor manufacturer *	Intel
Processor family *	Intel® Core™ i3
Processor generation	2nd gen Intel® Core™ i3
Processor model *	i3-2120
Processor cores	2
Processor threads	4
Processor frequency *	3.3 GHz
Processor socket	LGA 1155 (Socket H2)
Processor cache	3 MB
Processor cache type	Smart Cache
System bus rate	5 GT/s
Bus type	DMI
FSB Parity	✕
Processor lithography	32 nm
Processor operating modes	64-bit
Processor series	Intel Core i3-2100 Desktop Series
Processor codename	Sandy Bridge
Thermal Design Power (TDP)	65 W
Tcase	69.1 °C
PCI Express slots version	2.0
Maximum number of PCI Express lanes	16
Number of processors installed	1
CPU multiplier (bus/core ratio)	33
Maximum internal memory supported by processor	32 GB
Memory types supported by processor	DDR3 1066/1333
Memory bandwidth supported by processor (max)	21 GB/s

Software	
Operating system architecture	64-bit
Operating system installed *	Windows 7 Professional

Processor special features	
Intel® Wireless Display (Intel® WiDi)	✕
Intel 64	✔
Enhanced Intel SpeedStep Technology	✔
Embedded options available	✔
Intel® InTru™ 3D Technology	✔
Intel® Insider™	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel Clear Video Technology	✕
Intel VT-x with Extended Page Tables (EPT)	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Intel® AES New Instructions (Intel® AES-NI)	✕
Intel Trusted Execution Technology	✕
Execute Disable Bit	✔
Intel FDI Technology	✔
Intel Flex Memory Access	✔
Intel Fast Memory Access	✔
Intel Enhanced Halt State	✔
Intel Demand Based Switching	✕

Processor	
ECC supported by processor	✗

Memory	
Internal memory *	4 GB
Maximum internal memory *	16 GB
Internal memory type	DDR3-SDRAM
Memory slots	4x DIMM
Memory clock speed	1333 MHz
ECC	✓
Memory channels	Dual-channel

Storage	
Optical drive type *	DVD Super Multi
Total HDDs capacity	500 GB
Number of HDDs installed	1
HDD capacity	500 GB
HDD interface	SATA
HDD speed	7200 RPM
Card reader integrated	✗

Graphics	
On-board graphics card *	✓
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 2000
On-board graphics card base frequency	850 MHz
On-board graphics card dynamic frequency (max)	1100 MHz
Number of displays supported (on-board graphics)	2
On-board graphics card ID	0x102

Ports & interfaces	
USB 2.0 ports quantity *	14
PS/2 ports quantity	2
Ethernet LAN (RJ-45) ports	1
Microphone in	✓
Headphone outputs	1
Serial ports quantity	1

Design	
Chassis type *	SFF
Country of origin	China

Performance	
Motherboard chipset	Intel® C206
Audio system	High Definition Audio
Product type *	Workstation

Processor special features	
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
CPU configuration (max)	1
Intel Virtualization Technology for Directed I/O (VT-d)	✗
Intel Identity Protection Technology version	1.00
Intel Virtualization Technology (VT-x)	✓
Intel Dual Display Capable Technology	✓
Intel Rapid Storage Technology	✗
Processor ARK ID	53426
Intel® Turbo Boost Technology	✗
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)	✗
Conflict-Free processor	✗

Power	
Power supply *	240 W

Weight & dimensions	
Width *	338 mm
Depth *	381 mm
Height *	100 mm
Weight *	7.6 kg

Display	
Display included *	✓
Display diagonal	54.6 cm (21.5")

Other features	
Networking features	Gigabit Ethernet (10/100/1000)
Graphics card family	Intel
Graphics card	HD Graphics 2000
Resolution	1920 x 1080 pixels

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