

HP Z230 Tower i7-4770 Mini Tower Intel® Core™ i7 8 GB DDR3-SDRAM 500 GB HDD Windows 7 Professional Workstation Black

Brand : HP

Product code: WM610ET

Product name : Z230 Tower

HP Z230 Tower Workstation

HP Z230 Tower. Processor frequency: 3.4 GHz, Processor family: Intel® Core™ i7, Processor model: i7-4770. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM, Memory clock speed: 1600 MHz. Total storage capacity: 500 GB, Storage media: HDD, Optical drive type: DVD Super Multi. On-board graphics card model: Intel® HD Graphics 4600, Discrete graphics card model: NVIDIA® Quadro® K600. Operating system installed: Windows 7 Professional, Operating system architecture: 64-bit. Power supply: 400 W. Product type: Workstation





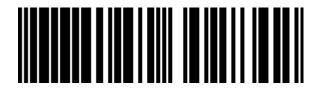


Processor		Design	
Processor manufacturer * Processor generation Processor model *	Intel 4th gen Intel® Core™ i7 i7-4770 Intel® Core™ i7 4 3.4 GHz 3.9 GHz LGA 1150 (Socket H3) 8 MB Smart Cache 8	Number of 2.5" bays Product colour * Country of origin	1 Black China
Processor family *		Performance	
Processor cores Processor frequency * Processor boost frequency		Motherboard chipset Product type *	Intel® C226 Workstation
Processor socket		Software	
Processor cache Processor cache type Processor threads		Operating system installed * Operating system architecture Recovery operating system	Windows 7 Professional 64-bit Windows 8 Pro
System bus rate	5 GT/s	Processor special features	
Bus type FSB Parity	DMI2	Intel® Small Business Advantage (Intel® SBA)	×
Processor lithography Processor operating modes	22 nm 64-bit	Intel® Wireless Display (Intel® WiDi)	4
Processor series	Intel Core i7-4700 Desktop series	Intel 64	1
Processor codename Thermal Design Power (TDP)	Haswell 84 W	Enhanced Intel SpeedStep Technology	<
Tcase	72.72 °C	Embedded options available	×
PCI Express slots version	3.0	Intel® InTru™ 3D Technology	1
Maximum number of PCI Express lanes	16	Intel® Insider™ Intel® Clear Video HD Technology (Intel® CVT HD)	1
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel Clear Video Technology	×
Number of processors installed Number of QPI links	1 1	Intel VT-x with Extended Page Tables (EPT)	1

Processor		Processor special features	
Stepping	CO	Intel TSX-NI	×
Maximum internal memory supported by processor	32 GB	Idle States	
Memory types supported by		Thermal Monitoring Technologies	v
processor	DDR3-SDRAM	Intel Stable Image Platform Program (SIPP)	✓
Memory clock speeds supported by	1333,1600 MHz	Intel® AES New Instructions (Intel®	,
processor Memory bandwidth supported by		AES-NI)	*
processor (max)	25.6 GB/s	Intel® Secure Key	
ECC supported by processor	×	Intel® OS Guard Intel Trusted Execution Technology	
Memory voltage supported by	1.5 V	Execute Disable Bit	
processor		Intel FDI Technology	4
Memory		Intel Flex Memory Access	×
Internal memory *	8 GB	Intel Fast Memory Access	×
Internal memory type	DDR3-SDRAM	Intel [®] Smart Cache	1
Memory layout (slots x size)		Intel Enhanced Halt State	1
Memory slots Memory clock speed	4x DIMM 1600 MHz	Intel Demand Based Switching	×
Memory channels	Dual-channel	Intel [®] Clear Video Technology for Mobile Internet Devices (Intel CVT	×
5		for MID)	•
Storage	500 CD	Processor package size	37.5 x 37.5 mm
Total storage capacity *	500 GB HDD	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Storage media * Optical drive type *	DVD Super Multi	Processor code	SR149
Total HDDs capacity	500 GB	Scalability	15
Number of HDDs installed	1	CPU configuration (max) Graphics & IMC lithography	1 22 nm
HDD capacity	500 GB	Thermal solution specification	PCG 2013D
HDD interface	SATA	Intel Virtualization Technology for	
HDD speed	7200 RPM	Directed I/O (VT-d)	v
Graphics		Intel Identity Protection Technology version	1.00
Discrete graphics card *	×	Intel Stable Image Platform Program	1.00
Discrete graphics card model *	NVIDIA® Quadro® K600	(SIPP) version	
On-board graphics card *	✓ Intel® UD Cranbias	Intel Secure Key Technology version	1.00
On-board graphics card family On-board graphics card model *	Intel [®] HD Graphics Intel [®] HD Graphics 4600	Intel Virtualization Technology (VT- x)	1
On-board graphics card hoder		Intel Small Business Advantage	1.00
frequency	350 MHz	(SBA) version	
On-board graphics card dynamic	1200 MHz	Intel TSX-NI version	0.00
frequency (max) Maximum on-board graphics card		Intel Dual Display Capable Technology	×
memory	2 GB	Intel Rapid Storage Technology	×
Number of displays supported (on-	3	Processor ARK ID	75122
board graphics)	5	Intel® Smart Response Technology	×
On-board graphics card DirectX version	11.2/12	Intel [®] Rapid Start Technology	×
On-board graphics card OpenGL	4.3	Intel® Turbo Boost Technology	2.0
version		Intel Smart Connect Technology	×
On-board graphics card ID	0x412	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Network		Intel® Quick Sync Video Technology	✓
Ethernet LAN *	1	Intel® My WiFi Technology (Intel®	1
Ethernet LAN data rates	10,100,1000 Mbit/s	MWT) Intel® Identity Protection	
Cabling technology	10/100/1000Base-T(X)	Technology (Intel® IPT)	4
Wi-Fi *	×	Intel [®] Anti-Theft Technology	1
Ports & interfaces		(Intel® AT) Conflict-Free processor	
USB 2.0 ports quantity *	6	·	•
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Power	400 W
DVI port	×	Power supply *	400 W
PS/2 ports quantity	2	Weight & dimensions	
Ethernet LAN (RJ-45) ports	1	Width *	170 mm
Microphone in	1	Depth *	442 mm
Headphone outputs	1	Height *	399 mm

Ports & interfaces		Weight & dimensions	
Line-out	1	Weight *	8.8 kg
Line-in	4	Packaging content	
Expansion slots		Display included *	×
PCI Express x1 (Gen 2.x) slots	1	Mouse included	×
PCI Express x4 (Gen 2.x) slots	1	Keyboard included	1
PCI Express x16 (Gen 2.x) slots		Other features	
PCI Express x16 (Gen 3.x) slots		Optical drives quantity	1
Design		- p	-
Chassis type *	Mini Tower		
Water cooling system	×		
Number of 3.5" bays	2		
Number of 5.25" bays	2		





































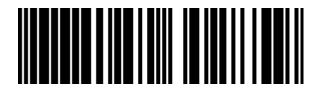














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