Lenovo ThinkStation D20 (415521G) + ATI FirePro V7750 1GB, UK Intel® Xeon® 5000 Sequence E5506 4 GB DDR3-SDRAM Windows XP Professional Tower Workstation

Brand : Lenovo

Product family: ThinkStation

Product code: SNF21UK+51J0511

Product name : ThinkStation D20 (415521G) + ATI FirePro V7750 1GB, UK

ThinkStation D20 (415521G), Intel Xeon E5506, 4GB DDR3 SDRAM, 250GB SATA HDD, DVD-RW, ATI FirePro V7750 1GB GDDR3, Windows XP Professional, Tower
Lenovo ThinkStation D20 (415521G) + ATI FirePro V7750 1GB, UK. Processor frequency: 2,13 GHz, Processor family: Intel® Xeon® 5000 Sequence, Processor model: E5506. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM, Memory clock speed: 1066 MHz. Card reader integrated, Optical drive type: DVD-RW. Operating system installed: Windows XP Professional. Power supply: 1060 W. Chassis type: Tower. Product type: Workstation. Weight: 24,9 kg

Processor	
Processor manufacturer *	Intel
Processor family *	Intel® Xeon® 5000 Sequence
Processor model *	E5506
Processor cores	4
Processor threads	4
Processor frequency *	2.13 GHz
Processor socket	Socket B (LGA 1366)
Processor cache	4 MB
Processor cache type	Smart Cache
System bus rate	4.8 GT/s
Bus type	QPI
FSB Parity	✗
Processor lithography	45 nm
Processor operating modes	64-bit
Processor series	Intel Xeon 5500 Series
Processor codename	Nehalem EP
Thermal Design Power (TDP)	80 W
Processor system type	DP
Tcase	76 °C
Number of QPI links	2
Stepping	D0
CPU multiplier (bus/core ratio)	16
Maximum internal memory supported by processor	144 GB
Memory types supported by processor	DDR3-SDRAM
Memory clock speeds supported by processor	800 MHz
Memory bandwidth supported by processor (max)	19.2 GB/s
ECC supported by processor	✓

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® Smart Cache	✓
Intel Enhanced Halt State	✓
Intel Demand Based Switching	✓
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Processor package size	42.5 x 45 mm
Processor code	SLBF8
Physical Address Extension (PAE)	✓

Memory	
Internal memory *	4 GB
Maximum internal memory *	96 GB
Internal memory type	DDR3-SDRAM
Memory layout (slots x size)	2 x 2 GB
Memory clock speed	1066 MHz
Memory channels	Triple-channel

Storage	
Optical drive type *	DVD-RW
HDD capacity	250 GB
HDD interface	SATA
Card reader integrated	✔
Compatible memory cards	CF, MMC, SD, xD

Graphics	
Maximum graphics card memory	1.024 GB

Ports & interfaces	
USB 2.0 ports quantity *	10
Firewire (IEEE 1394) ports	2
eSATA ports quantity	1
Ethernet LAN (RJ-45) ports	2
Microphone in	✔
Headphone outputs	1
Line-in	✔
Serial ports quantity	1

Expansion slots	
PCI Express x16 slots	1
PCI slots	2

Design	
Chassis type *	Tower

Performance	
Audio system	ADI 1988 A
Product type *	Workstation

Software	
Operating system installed *	Windows XP Professional
Compatible operating systems	Windows XP Pro SP1a/SP2a 32/64-bit Red Hat Enterprise Linux 5.0 Windows Vista Business Windows Vista Business 64 Windows Vista Enterprise Edition 32-bit Windows Vista Enterprise Edition 64-bit Windows Vista Ultimate Windows Vista Ultimate 64-Bit

Processor special features	
Physical Address Extension (PAE)	40 bit
CPU configuration (max)	2
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Virtualization Technology (VT-x)	✔
Intel Dual Display Capable Technology	✘
Intel Rapid Storage Technology	✘
Processor ARK ID	37096
Intel® Turbo Boost Technology	✘
Intel® Hyper Threading Technology (Intel® HT Technology)	✘
Intel® Quick Sync Video Technology	✘
Intel® My WiFi Technology (Intel® MWT)	✘
Intel® Anti-Theft Technology (Intel® AT)	✘
Conflict-Free processor	✘

Power	
Power supply *	1060 W

Weight & dimensions	
Width *	210 mm
Depth *	579 mm
Height *	485 mm
Weight *	24.9 kg

Packaging content	
Mouse included	✔

Display	
Display included *	✘

Other features	
Power requirements	100-240V; 50/60Hz
CD read speed	40x
Keyboard type	Preferred Pro USB
Graphics card	FirePro V7750

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