HP TouchSmart 520-1000nl Intel® Core™ i3 i3-2120 58.4 cm (23") 1920 x 1080 pixels 4 GB DDR3-SDRAM 500 GB Windows 7 Home Premium Black

Brand : HP **Product family:** TouchSmart **Product code:** LN682EA#ABH

Product name : TouchSmart 520-1000nl

HP TouchSmart 520-1000nl. Display diagonal: 58.4 cm (23"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Processor family: Intel® Core™ i3, Processor frequency: 3.3 GHz. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 500 GB. On-board graphics card model: Intel® HD Graphics 2000. Built-in camera. Optical drive type: DVD Super Multi. Operating system installed: Windows 7 Home Premium. Product color: Black

Display	
Display diagonal *	58.4 cm (23")
Display resolution *	1920 x 1080 pixels
HD type *	Full HD
Native aspect ratio	16:9

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 cache	3 MB
Processor cache type	Smart Cache
System bus rate	5 GT/s
Thermal Design Power (TDP)	65 W
PCI Express slots version	2.0
Processor socket	LGA 1155 (Socket H2)
Processor lithography	32 nm
Processor operating modes	64-bit
Bus type	DMI
Processor codename	Sandy Bridge
Processor series	Intel Core i3-2100 Desktop Series
FSB Parity	✗
Maximum number of PCI Express lanes	16
Tcase	69.1 °C
CPU multiplier (bus/core ratio)	33
Maximum internal memory supported by processor	32 GB
Conflict-Free processor	✗

Ports & interfaces	
Microphone in	✓

Design	
Product color *	Black
Country of origin	China

Performance	
Motherboard chipset	Intel® H61

Software	
Operating system architecture	64-bit
Operating system installed *	Windows 7 Home Premium

Processor special features	
Intel® Turbo Boost Technology	✗
Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Intel® My WiFi Technology (Intel® MWT)	✗
Intel® Identity Protection Technology (Intel® IPT)	✓
Intel® Anti-Theft Technology (Intel® AT)	✗
Intel® Wireless Display (Intel® WiDi)	✗
Enhanced Intel SpeedStep Technology	✓
Intel® Quick Sync Video Technology	✓
Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Intel Clear Video Technology	✗
Intel® Insider™	✓
Intel® InTru™ 3D Technology	✓
Intel Flex Memory Access	✓

Processor	
Memory types supported by processor	DDR3 1066/1333
Memory bandwidth supported by processor (max)	21 GB/s
Memory channels supported by processor	Dual
ECC supported by processor	✗

Memory	
Internal memory *	4 GB
Internal memory type	DDR3-SDRAM
Maximum internal memory *	8 GB
Memory layout (slots x size)	1 x 4 GB

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

Graphics	
Discrete graphics card model *	Not available
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

Camera	
Built-in camera *	✓

Network	
Wi-Fi *	✓
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)
Ethernet LAN *	✓

Ports & interfaces	
Ethernet LAN (RJ-45) ports	1
USB 2.0 ports quantity *	4
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
VGA (D-Sub) ports quantity	1
DVI port	✗
Headphone outputs	1

Processor special features	
Intel® AES New Instructions (Intel® AES-NI)	✗
Intel Trusted Execution Technology	✗
Intel Enhanced Halt State	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel Demand Based Switching	✗
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Intel 64	✓
Execute Disable Bit	✓
Idle States	✓
Thermal Monitoring Technologies	✓
Processor package size	37.5 x 37.5 mm
Supported instruction sets	AVX
CPU configuration (max)	1
Embedded options available	✓
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 FDI Technology	✓
Intel Rapid Storage Technology	✗
Intel Fast Memory Access	✓
Processor ARK ID	53426

Weight & dimensions	
Width (with stand)	580 mm
Depth (with stand)	217 mm
Height (with stand)	457 mm
Weight (with stand)	11.7 kg

Other features	
Graphics card family	Intel
Chassis type	All-in-One
Display included	✓
Networking features	Gigabit Ethernet
Number of processors installed	1
Power supply	180 W

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