ideacentre AIO 520-24AST Platform Specifications

Processor	AMD A4, A6, A9, A10 or A12 series APUs

APU	Cores	Frequency (Base/Max)	Cache	Memory Type	Integrated Graphics
A4-9120	2	2.2 GHz / 2.5 GHz	1 MB	DDR4-1866	Radeon™ R3
A6-9220	2	2.5 GHz / 2.9 GHz	1 MB	DDR4-1866	Radeon R4
A9-9420	2	3.0 GHz / 3.6 GHz	1 MB	DDR4-1866	Radeon R5
A10-9620P	4	2.5 GHz / 3.4 GHz	2 MB	DDR4-1866	Radeon R5
A12-9720P	4	2.7 GHz / 3.6 GHz	2 MB	DDR4-1866	Radeon R7

Memory	8GB max / 2400MHz DDR4, two SO-DIMM sockets * System automatically clocks down for the processors with lower memory controller
Storage	*Some:* SATA 6.0Gb/s, 3.5" wide, 7200 rpm *Some:* M.2 SSD / PCIe NVMe, PCIe 3.0 x 4 (e.g. 256GB SSD M.2 PCIe NVMe) *Some:* M.2 SSD / PCIe NVMe, PCIe 3.0 x 2 (e.g. 128GB SSD M.2 PCIe NVMe)
Optical	Optional DVD±RW, 9.0mm high, tray-in
Media reader	3-in-1 media card reader (SD, SDHC, SDXC)
Graphics	Integrated AMD Radeon Graphics in processor, DirectX® 12 or AMD Radeon 530, 2GB GDDR5, DirectX 12
Display	**23.8"** (604.5mm) **Full HD (1920x1080) color**, WVA, LED backlight, anti-glare, borderless, 16:9 aspect ratio
Multi-touch	Optional multi-touch, supports 10-point, AIT (Advanced In-cell Touch) technology
Camera	*Some:* 720p camera, fixed focus *Some:* IR camera, 1080p, supports Windows Hello
Controls	Power button, optical drive eject button, cable clip, camera eject button
Chipset	AMD SoC (System on Chip) platform
Ports*	*Rear:* Three USB 2.0, one USB 3.1 Gen1, one ethernet (RJ-45), one HDMI out port, optional one HDMI in port, one power connector, one security cable slot *Right:* one USB 3.1 Gen1 *Bottom:* one headphone / microphone combo jack (3.5mm), card reader
M.2 card slot	Two M.2 Card slots (one for WLAN, one for SSD) ** Depending on many factors, actual data transfer speed may be lower than theoretical speed*
Audio support	HD Audio, stereo speakers with Dolby® Audio™ certification,3W x 2, dual array microphone

WLAN[13] Bluetooth™	11ac Wi-Fi + Bluetooth 4.0 combo adapter, M.2 card, dual band, 1x1 Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	Gigabit ethernet
Manageability	None
Security chip Security features	Security chip Security features
Keyboard *(opt)* Mouse *(opt)*	*Some:* Lenovo Calliope Keyboard (USB connector), silver or black *Some:* Lenovo Wireless Keyboard (2.4GHz via USB receiver), silver or black *Some:* Lenovo Calliope Mouse (USB connector), silver or black *Some:* Lenovo Wireless Mouse (2.4GHz via USB receiver), silver or black

Mechanical	● black or warm silver			
		Dimensions (WxDxH)	Max weight (lb / kg)	Adjustments
	Without stand	21.31 X 2.24 X 13.62 (inch); 541.2 x 57.3 x 346.06 (mm)	N/A	N/A
	With stand	21.31 X 8.34 X 16.39 (inch); 541.2 x 212 x 416.8 (mm)	13.6 / 6.17	Tilt: 25° back, -5° forward

Power supply	65 or 90 watts adapter, 100V-240V
Limited warranty	**1-year** or **2-year, depot repair service** / service upgrades available
Preload	**Preloaded operating system** *Some:* Windows 10 Home 64-bit **Preloaded applications (only some listed)** ● Microsoft® Office 2016; purchase a product key to activate ● Lenovo® Settings ● Lenovo Application Explorer ● McAfee® LiveSafe™ (30-day trial) ● Lenovo ID ● Lenovo Family Cloud ● User Guide
Environment	ENERGY STAR® 6.1; ErP Lot 3; GREENGUARD® certified; RoHS-compliant
Accessories	For compatible accessories, please go to **http://smartfind.lenovo.com**