ideacentre AIO 520 Platform Specifications

Processor	AMD® E2, A4, A6, A9, A10 or A12 series APUs

Processor	Cores	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics
E2-9010	2	2.0 GHz / 2.2 GHz	1 MB	DDR4-1866	Radeon™ R2
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

Intel® Pentium® Processors or 6th / 7th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Type	Integrated Graphics
Core i3-7100T	2 / 4	3.4 GHz	3 MB	DDR4-2400	Intel HD Graphics 630
Core i5-7400T	4 / 4	2.4 GHz / 3.0 GHz	6 MB	DDR4-2400	Intel HD Graphics 630
Core i7-7700T	4 / 8	2.9 GHz / 3.8 GHz	8 MB	DDR4-2400	Intel HD Graphics 630
Pentium 4415U	2 / 4	2.3 GHz	2 MB	DDR4-2133	Intel HD Graphics 610
Core i3-6006U	2 / 4	2.0 GHz	3 MB	DDR4-2133	Intel HD Graphics 520
Core i5-7200U	2 / 4	2.5 GHz / 3.1 GHz	3 MB	DDR4-2133	Intel HD Graphics 620
Core i5-8250U	4 / 8	1.6 GHz / 3.4 GHz	6 MB	DDR4-2400	Intel HD Graphics 620

Chipset	*520-22AST / 24AST:* AMD Soc (System on Chip) platform *520-22IKU:* Intel Soc (System on Chip) platform *520-27IKL:* Intel B250 chipset
Memory	*520-22AST / 24AST / 22IKU:* 8GB max / 2400MHz DDR4, two SO-DIMM sockets *520-27IKL:* 16GB max / 2400MHz DDR4, two SO-DIMM sockets
Graphics	*Some:* AMD Radeon Graphics or Intel HD Graphics 630 in processor *Some:* AMD Radeon 530, 2GB GDDR5, DirectX® 12 *Some:* NVIDIA® GeForce® 940MX, 2GB GDDR5, DirectX 12
Storage	*Some:* SATA 6.0Gb/s, 3.5" wide, 7200 rpm *Some:* M.2 SSD / PCIe, PCIe 3.0 x 4 *Some:* Intel Optane™ Memory Ready (models with 7th gen Core processor), M.2
SATA Controller	Serial ATA, SATA 6.0Gb/s support
Optical	SATA connector, DVD±RW, 9.0mm high, tray-in
Media reader	3-in-1 reader (SD, SDHC, SDXC) (bottom)
Ports	*520-22AST / 24AST / 22IKU:* USB 2.0 x 3, power connector, Ethernet (RJ-45), security slot HDMI-out, USB 3.0 x 2, combo audio jack (bottom), optional HDMI-in, *520-27IKL:* USB 2.0 x 2, power connector, Ethernet (RJ-45), optional HDMI-in, HDMI-out, USB 3.0 x 2, combo audio jack (bottom), security slot, Type-C port x 1 (USB 3.0 / Always On Charging)
TV tuner	None
Audio support	*520-22AST / 24AST / 22IKU:* HD Audio, stereo speakers with Dolby® Advanced Audio™ certification, 3W x 2, dual array microphone *520-27IKL:* HD Audio, stereo speakers with Dolby Premium™ certification, 3W x 2, dual array microphone

Display	*Some:* 21.5" (546mm) FHD (1920x1080) color, WVA, LED backlight, anti-glare, frameless 16:9 aspect ratio, 250 nits, borderless *Some:* 23.8" (546mm) FHD (1920x1080) color, WVA, LED backlight, anti-glare, frameless 16:9 aspect ratio, 250 nits, borderless *Some:* 27" (685mm) QHD (2560x1440) color, WVA, LED backlight, anti-glare or glare, frameless 16:9 aspect ratio, 350 nits, borderless
Multi-touch *(opt)*	Support 10-point touch
Light sensor	None
Controls	Power button, optical drive eject button, cable clip, camera eject button
WLAN	11ac wireless, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1, M.2 card
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Ethernet	Gigabit Ethernet connection
Remote control	None
Security	Power-on password, administrator password, security slot
Security chip	None
Dimensions	*520-22AST / 22IKU* *WxDxH:* 19.32" x 2.24" x 15.27"; 490.7mm x 57mm x 387.78mm *520-24AST* *WxDxH:* 21.31" x 2.25" x 16.39"; 541.2mm x 57.3mm x 416.38mm *520-27IKL Touch model* *WxDxH:* 24.58" x 2.68" x 18.87"; 624.35mm x 68mm x 479.4mm *520-27IKL Non-Touch model* *WxDxH:* 24.21" x 2.52" x 18.69"; 615mm x 64mm x 474mm
Weight (net)	*520-22AST / 22IKU model:* 12.46 lb (5.65 kg) *520-24AST:* 13.6 lb (6.17 kg) *520-27IKL Touch model:* 23.15 lb (10.5 kg) *520-27IKL Non-Touch model:* 19.5 lb (8.83 kg)
Case color	Black or silver
Stand	Adjustable monitor stand, from -5° degrees to 25° degrees
VESA mount	None
Power adapter	*Some:* 65 watts PSU, 100V-240V *Some:* 90 watts PSU, 100V-240V *Some:* 120 watts PSU, 100V-240V *Some:* 150 watts PSU, 100V-240V
Camera	*Some:* 720p HD, fixed focus *Some:* 1080p HD, fixed focus *Some:* IR camera, 1080p, (support Windows Hello)
Keyboard *(opt)*	*Some:* Lenovo Calliope Keyboard (USB connector), black or silver *Some:* Lenovo Calliope Wireless Keyboard, black or silver
Mouse *(opt)*	*Some:* Lenovo Calliope Mouse (USB connector), black or silver *Some:* Lenovo Calliope Wireless Mouse, black or silver
Limited warranty	1-year, limited Mail-in service / service upgrades available
Preload	Windows® 10 Home 64 Preinstalled software includes but not limited to the following: • Lenovo® Companion 3.0 • Lenovo ID • Lenovo Settings • Lenovo Rescue System 9.0 • McAfee® LiveSafe™ (30-day trial)
Environment	RoHS-compliant; ENERGY STAR® 6.1