

# ideacentre AIO 520 (24") Intel Platform Specifications

Product Specifications Reference (PSREF)

Processor	<p><b>24IKL:</b> Intel® Celeron® Processor, Intel Pentium® Processor or 6th / 7th Generation Intel® Core™ i3 / i5 / i7 Processors</p> <table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Frequency (Base/Max)</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Celeron G3930T</td> <td>2 / 2</td> <td>2.7 GHz</td> <td>2 MB</td> <td>DDR4-2133</td> <td>Intel HD Graphics 610</td> </tr> <tr> <td>Pentium G4560T</td> <td>2 / 4</td> <td>2.9 GHz</td> <td>3 MB</td> <td rowspan="4">DDR4-2400</td> <td rowspan="4">Intel HD Graphics 630</td> </tr> <tr> <td>Core i3-7100T</td> <td>2 / 4</td> <td>3.4 GHz</td> <td>3 MB</td> </tr> <tr> <td>Core i5-7400T</td> <td>4 / 4</td> <td>2.4 GHz / 3.0 GHz</td> <td>6 MB</td> </tr> <tr> <td>Core i7-7700T</td> <td>4 / 8</td> <td>2.9 GHz / 3.8 GHz</td> <td>8 MB</td> </tr> </tbody> </table> <p><b>24IKU:</b> Intel Pentium Processor or 6th / 7th / 8th Generation Intel Core i3 / i5 Processors</p> <table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Frequency (Base/Max)</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Pentium 4415U</td> <td>2 / 4</td> <td>2.3 GHz</td> <td>2 MB</td> <td rowspan="3">DDR4-2133</td> <td>Intel HD Graphics 610</td> </tr> <tr> <td>Core i3-6006U</td> <td>2 / 4</td> <td>2.0 GHz</td> <td rowspan="2">3 MB</td> <td>Intel HD Graphics 520</td> </tr> <tr> <td>Core i3-7020U</td> <td>2 / 4</td> <td>2.3 GHz</td> <td>Intel HD Graphics 620</td> </tr> <tr> <td>Core i5-7200U</td> <td>2 / 4</td> <td>2.5 GHz / 3.1 GHz</td> <td rowspan="2">6 MB</td> <td rowspan="2">DDR4-2400</td> <td>Intel UHD Graphics 620</td> </tr> <tr> <td>Core i5-8250U</td> <td>4 / 8</td> <td>1.6 GHz / 3.4 GHz</td> <td>Intel UHD Graphics 620</td> </tr> </tbody> </table> <p><b>24ICB:</b> Intel Pentium Gold Processor or 8th Generation Intel Core i3 / i5 / i7 Processors</p> <table border="1"> <thead> <tr> <th>Processor</th> <th>Cores / Threads</th> <th>Frequency (Base/Max)</th> <th>Cache</th> <th>Memory Types</th> <th>Integrated Graphics</th> </tr> </thead> <tbody> <tr> <td>Pentium Gold G5400T</td> <td>2 / 4</td> <td>3.1 GHz</td> <td>4 MB</td> <td>DDR4-2400</td> <td>Intel UHD Graphics 610</td> </tr> <tr> <td>Core i3-8100T</td> <td>4 / 4</td> <td>3.1 GHz</td> <td>6 MB</td> <td rowspan="3">DDR4-2666</td> <td rowspan="3">Intel UHD Graphics 630</td> </tr> <tr> <td>Core i5-8400T</td> <td>6 / 6</td> <td>1.7 GHz / 3.3 GHz</td> <td>9 MB</td> </tr> <tr> <td>Core i7-8700T</td> <td>6 / 12</td> <td>2.4 GHz / 4.0 GHz</td> <td>12 MB</td> </tr> </tbody> </table>					Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics	Celeron G3930T	2 / 2	2.7 GHz	2 MB	DDR4-2133	Intel HD Graphics 610	Pentium G4560T	2 / 4	2.9 GHz	3 MB	DDR4-2400	Intel HD Graphics 630	Core i3-7100T	2 / 4	3.4 GHz	3 MB	Core i5-7400T	4 / 4	2.4 GHz / 3.0 GHz	6 MB	Core i7-7700T	4 / 8	2.9 GHz / 3.8 GHz	8 MB	Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics	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	Intel HD Graphics 520	Core i3-7020U	2 / 4	2.3 GHz	Intel HD Graphics 620	Core i5-7200U	2 / 4	2.5 GHz / 3.1 GHz	6 MB	DDR4-2400	Intel UHD Graphics 620	Core i5-8250U	4 / 8	1.6 GHz / 3.4 GHz	Intel UHD Graphics 620	Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics	Pentium Gold G5400T	2 / 4	3.1 GHz	4 MB	DDR4-2400	Intel UHD Graphics 610	Core i3-8100T	4 / 4	3.1 GHz	6 MB	DDR4-2666	Intel UHD Graphics 630	Core i5-8400T	6 / 6	1.7 GHz / 3.3 GHz	9 MB	Core i7-8700T	6 / 12	2.4 GHz / 4.0 GHz	12 MB	Ports	<p><b>Rear:</b> USB 2.0 x 3, power connector, Ethernet (RJ-45), security cable slot, HDMI-out, USB 3.1 Gen1 x 1 (for 24IKU / 24IKL), USB 3.1 Gen2 x 1 (only for 24ICB), optional HDMI-in</p> <p><b>Bottom:</b> headphone / microphone combo jack (3.5mm) x 1, media card reader</p> <p><b>Right:</b> USB 3.1 Gen1 x 1</p> <p><b>None</b></p>
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TV tuner	None																																																																																													
Audio support	HD Audio, stereo speakers with Dolby® Audio™ certification, 3W x 2, dual array microphone																																																																																													
Display	23.8" (604.5mm) FHD (1920x1080) color, WVA, LED backlight, anti-glare, frameless 16:9 aspect ratio, 250 nits, IPS, 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																																																																																													
Mechanical	<ul style="list-style-type: none"> <li>black or silver color</li> </ul> <table border="1"> <thead> <tr> <th></th> <th>Dimensions (WxDxH)</th> <th>Max weight (lb / kg)</th> <th>Adjustments</th> </tr> </thead> <tbody> <tr> <td>Without stand</td> <td>21.31 X 2.24 X 13.62 (inch); 541.2 x 57.3 x 346.06 (mm)</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>With stand</td> <td>21.31 X 8.34 X 16.39 (inch); 541.2 x 212 x 416.8 (mm)</td> <td>13.6 / 6.17</td> <td>Tilt: 25° back, -5° forward</td> </tr> </tbody> </table>		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																																																																																	
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Power adapter	<p><i>Some:</i> 90 watts PSU, 100V-240V</p> <p><i>Some:</i> 120 watts PSU, 100V-240V</p>																																																																																													
Camera	<p><i>Some:</i> 720p HD, fixed focus</p> <p><i>Some:</i> IR camera, 1080p, (support Windows Hello)</p>																																																																																													
Keyboard (opt)	<p><i>Some:</i> Lenovo Calliope Keyboard (USB connector), black or silver</p> <p><i>Some:</i> Lenovo Calliope Wireless Keyboard, black or silver</p>																																																																																													
Mouse (opt)	<p><i>Some:</i> Lenovo Calliope Mouse (USB connector), black or silver</p> <p><i>Some:</i> Lenovo Calliope Wireless Mouse, black or silver</p>																																																																																													
Limited warranty	<p><i>Some:</i> 1-year, limited mail-in service / service upgrades available</p> <p><i>Some:</i> 1-year or 2-year, depot repair service / service upgrades available</p>																																																																																													
Preload	<p><i>Some:</i> Windows® 10 Home 64</p> <p><i>Some:</i> Windows 10 Pro 64</p> <p>Preinstalled software includes but not limited to the following:</p> <ul style="list-style-type: none"> <li>Lenovo® Companion 3.0</li> <li>Lenovo ID</li> <li>Lenovo Settings</li> <li>Lenovo Rescue System 9.0</li> <li>McAfee® LiveSafe™ (30-day trial)</li> </ul>																																																																																													
Environment	<p><b>24ICB:</b> ENERGY STAR® 7.0; ErP Lot 3; RoHS-compliant</p> <p><b>Others:</b> GREENGUARD® certified; ErP Lot 3; ENERGY STAR 6.1 (will update to ENERGY STAR 7.0 after November)</p>																																																																																													
Chipset	<p><b>24IKL:</b> Intel B250 platform</p> <p><b>24IKU:</b> Intel SoC (System on Chip) platform</p> <p><b>24ICB:</b> Intel B360 platform</p>																																																																																													
Memory	<p><b>24IKL:</b> 12GB max / 2400MHz DDR4, two SO-DIMM sockets</p> <p><b>24IKU:</b> 8GB max / 2400MHz DDR4, two SO-DIMM sockets</p> <p><b>24ICB:</b> 16GB max / 2600MHz DDR4, two SO-DIMM sockets</p> <p>* System automatically clocks down for the processors with lower memory controller</p>																																																																																													
Graphics	<p><i>Some:</i> Intel HD Graphics 520 / 610 / 620 / 630 or Intel UHD Graphics 610 / 620 / 630 in processor</p> <p><i>Some:</i> AMD Radeon™ 530, 2GB GDDR5, DirectX® 12</p>																																																																																													
Storage	<p><i>Some:</i> SATA 6.0Gb/s, 3.5" wide, 7200 rpm</p> <p><i>Some:</i> M.2 SSD / PCIe NVMe, PCIe 3.0 x 4 (e.g. 256GB SSD M.2 PCIe NVMe)</p> <p><i>Some:</i> M.2 SSD / PCIe NVMe, PCIe 3.0 x 2 (e.g. 128GB SSD M.2 PCIe NVMe)</p> <p><i>Some:</i> Intel Optane™ Memory, M.2</p>																																																																																													
SATA Controller	Serial ATA, SATA 6.0Gb/s support																																																																																													
Optical (opt)	SATA connector, DVD±RW, 9.0mm high, tray-in																																																																																													
Media reader	3-in-1 reader (SD, SDHC, SDXC) (bottom)																																																																																													