

# Lenovo V110 (15") Platform Specifications

Product Specifications Reference (PSREF)

Processor	<p><b>V110-15ISK:</b> Intel® Celeron® Processor, Intel Pentium® Processor, or 6th Generation Intel Core™ i3 / i5 Processor</p> <table border="1"> <thead> <tr> <th>Processor Number</th> <th># of Cores</th> <th># of Threads</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Processor Graphics</th> </tr> </thead> <tbody> <tr> <td>Cel 3855U</td> <td rowspan="4">2</td> <td rowspan="4">4</td> <td>1.6 GHz</td> <td rowspan="4">-</td> <td>2MB</td> <td rowspan="4">DDR4-2133</td> <td>Intel HD Graphics 510</td> </tr> <tr> <td>Pen 4405U</td> <td>2.1 GHz</td> <td>2MB</td> <td rowspan="3">Intel HD Graphics 520</td> </tr> <tr> <td>i3-6006U</td> <td>2.0 GHz</td> <td>3MB</td> </tr> <tr> <td>i3-6100U</td> <td>2.3 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-6200U</td> <td></td> <td></td> <td>2.3 GHz</td> <td>2.8 GHz</td> <td>3MB</td> <td></td> <td></td> </tr> </tbody> </table> <p><b>V110-15IAP:</b> Intel Celeron Processor or Intel Pentium Processor</p> <table border="1"> <thead> <tr> <th>Processor Number</th> <th># of Cores</th> <th># of Threads</th> <th>Base Frequency</th> <th>Burst Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Processor Graphics</th> </tr> </thead> <tbody> <tr> <td>Cel N3350</td> <td>2</td> <td>2</td> <td rowspan="3">1.1 GHz</td> <td>2.4 GHz</td> <td rowspan="3">2MB</td> <td rowspan="3">DDR3L-1600</td> <td>Intel HD Graphics 500</td> </tr> <tr> <td>Cel N3450</td> <td rowspan="2">4</td> <td rowspan="2">4</td> <td>2.2 GHz</td> <td rowspan="2">Intel HD Graphics 505</td> </tr> <tr> <td>Pen N4200</td> <td>2.5 GHz</td> </tr> </tbody> </table> <p><b>V110-15IKB:</b> Intel® Celeron® Processor, Intel Pentium® Processor, or 7th Generation Intel Core™ i3 / i5 Processor</p> <table border="1"> <thead> <tr> <th>Processor Number</th> <th># of Cores</th> <th># of Threads</th> <th>Base Frequency</th> <th>Burst Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Processor Graphics</th> </tr> </thead> <tbody> <tr> <td>Cel 3865U</td> <td rowspan="4">2</td> <td rowspan="4">4</td> <td>1.8 GHz</td> <td rowspan="4">-</td> <td rowspan="2">2MB</td> <td rowspan="4">DDR4-2133</td> <td>Intel HD Graphics 610</td> </tr> <tr> <td>Pen 4415U</td> <td>2.3 GHz</td> <td rowspan="3">Intel HD Graphics 620</td> </tr> <tr> <td>i3-7100U</td> <td>2.4 GHz</td> </tr> <tr> <td>i5-7200U</td> <td>2.5 GHz</td> <td>3.1 GHz</td> </tr> </tbody> </table> <p><b>V110-15AST:</b> AMD A-Series or E-Series APUs</p> <table border="1"> <thead> <tr> <th>Processor Number</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Processor Graphics</th> </tr> </thead> <tbody> <tr> <td>E2-9010</td> <td rowspan="4">2</td> <td>2.0 GHz</td> <td>2.2 GHz</td> <td rowspan="4">1MB</td> <td>DDR4-1866</td> <td>AMD Radeon™ R2 Graphics</td> </tr> <tr> <td>A6-9210</td> <td>2.4 GHz</td> <td>2.8 GHz</td> <td rowspan="2">DDR4-2133</td> <td>AMD Radeon R4 Graphics</td> </tr> <tr> <td>A9-9410</td> <td>2.9 GHz</td> <td>3.5 GHz</td> <td>AMD Radeon R5 Graphics</td> </tr> </tbody> </table>							Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Cel 3855U	2	4	1.6 GHz	-	2MB	DDR4-2133	Intel HD Graphics 510	Pen 4405U	2.1 GHz	2MB	Intel HD Graphics 520	i3-6006U	2.0 GHz	3MB	i3-6100U	2.3 GHz	3MB	i5-6200U			2.3 GHz	2.8 GHz	3MB			Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics	Cel N3350	2	2	1.1 GHz	2.4 GHz	2MB	DDR3L-1600	Intel HD Graphics 500	Cel N3450	4	4	2.2 GHz	Intel HD Graphics 505	Pen N4200	2.5 GHz	Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics	Cel 3865U	2	4	1.8 GHz	-	2MB	DDR4-2133	Intel HD Graphics 610	Pen 4415U	2.3 GHz	Intel HD Graphics 620	i3-7100U	2.4 GHz	i5-7200U	2.5 GHz	3.1 GHz	Processor Number	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	E2-9010	2	2.0 GHz	2.2 GHz	1MB	DDR4-1866	AMD Radeon™ R2 Graphics	A6-9210	2.4 GHz	2.8 GHz	DDR4-2133	AMD Radeon R4 Graphics	A9-9410	2.9 GHz	3.5 GHz	AMD Radeon R5 Graphics	Display	<p><i>Some:</i> 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio</p> <p><i>Some:</i> 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio</p>
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										Multi-touch	None																																																																																																						
								Storage	<p><i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide</p> <p><i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high</p> <p><i>Some:</i> SSHD with 8GB NAND flash memory</p>																																																																																																								
								SATA controller	Serial ATA, SATA 6.0Gb/s support, integrated in processor																																																																																																								
								Optical (optional)	DVD burner, 9.0mm high, fixed, tray-in																																																																																																								
								Ethernet	Gigabit Ethernet connection																																																																																																								
								WLAN	11ac, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card																																																																																																								
								Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter																																																																																																								
								Dimensions	<i>WxDxH:</i> 14.96" x 10.31" x 0.90"; 380mm x 262mm x 22.9mm																																																																																																								
								Weight	1.9 kg (4.19 lb)																																																																																																								
								Case color	Black texture																																																																																																								
								Case material	PC/ABS plastic																																																																																																								
								Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)																																																																																																								
								Ports	One USB 3.1 Gen 1 / USB3.0, one USB 2.0, HDMI, Ethernet (RJ-45)																																																																																																								
								Camera (optional)	0.3MP, fixed focus																																																																																																								
								Audio support	HD Audio, monaural speaker, 1.5W x 1 / optional monaural digital microphone, combo audio/microphone jack																																																																																																								
								Keyboard	6-row, multimedia Fn keys, numeric keypad																																																																																																								
								Touchpad	2-button touchpad, multi-touch																																																																																																								
								Security	Power-on password, hard disk password, supervisor password, security keyhole																																																																																																								
								Security chip	Firmware TPM 2.0, integrated in chipset																																																																																																								
								Fingerprint reader	None																																																																																																								
								Battery	<p><b>V110-15ISK:</b> Integrated Li-Ion 4-cell (32Wh) battery</p> <p><b>V110-15IAP:</b> Integrated Li-Ion 3-cell (24Wh) battery</p> <p><b>V110-15IKB:</b> Integrated Li-Ion 4-cell (32Wh) battery</p> <p><b>V110-15AST:</b> Integrated Li-Ion 3-cell (24Wh) battery</p>																																																																																																								
								Max battery life	Up to 6 hr																																																																																																								
								AC adapter	45W or 65W AC adapter																																																																																																								
Graphics	<p><b>V110-15ISK:</b> Intel HD Graphics 510 or 520 in processor only, or Intel HD Graphics 510 or 520 in processor and AMD Radeon R5 M430 or AMD Radeon 530, 2GB memory;</p> <p><b>V110-15IAP:</b> Intel HD Graphics 500 or 505 in processor only;</p> <p><b>V110-15IKB:</b> Intel HD Graphics 610 or 620 in processor only, or Intel HD Graphics 610 or 620 in processor and AMD Radeon 530, 2GB memory;</p> <p><b>V110-15AST:</b> AMD Radeon R2, R4, or R5 Graphics in processor only, or AMD Radeon R2, R4, or R5 Graphics in processor and AMD Radeon R5 M430, 2GB memory;</p> <p>supports independent display;</p>							Preload	<p><i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64</p> <ul style="list-style-type: none"> <li>• Adobe® Reader®</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• McAfee® LiveSafe™ (30-day trial)</li> </ul>	<p><i>Some:</i> Windows 10 Home 64</p> <p><i>Some:</i> Windows 10 Pro 64</p> <ul style="list-style-type: none"> <li>• Lenovo Companion</li> <li>• Lenovo Setting</li> <li>• Microsoft Office preloaded; purchase a product key to activate</li> <li>• McAfee® LiveSafe™ (30-day trial)</li> </ul>																																																																																																							
								Limited warranty	<p><i>One of the following, configurable by model:</i></p> <ul style="list-style-type: none"> <li>• 1-year depot repair service</li> <li>• 2-year/1-yr battery depot repair service</li> </ul>																																																																																																								
Chipset	Intel or AMD SoC (System on Chip) platform							Environment	EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant																																																																																																								
Memory	<p><b>V110-15ISK:</b> 16GB max / 2133MHz DDR4, dual-channel capable, 4GB memory soldered to systemboard, one DDR4 SO-DIMM socket</p> <p><b>V110-15IAP:</b> 8GB max / 1600MHz DDR3L, dual-channel capable, optional 2GB memory soldered to systemboard, one DDR3L SO-DIMM socket</p> <p><b>V110-15IKB:</b> 16GB max / 2400MHz DDR4, dual-channel capable, 4GB memory soldered to systemboard, one DDR4 SO-DIMM socket</p> <p><b>V110-15AST:</b> 8GB max / 2133MHz DDR4, dual-channel capable, 4GB memory soldered to systemboard, one DDR4 SO-DIMM socket</p> <p>* System clocks down for processors with lower memory controller</p>																																																																																																																

<b>Model</b>	<b>80TH0012++</b>
Product	Lenovo V110-15IKB
Machine Type	80TH
Region	EMEA
Processor	Core i5-7200U (2C, 2.5 / 3.1GHz, 3MB)
Graphics	Integrated Intel HD Graphics 620
Memory	4GB DDR4-2400 Soldered
Display	15.6" HD (1366x768)
Multi-touch	None
Storage	500GB 5400rpm
Optical	DVD±RW
Ethernet	100/1000M
WLAN + Bluetooth	11ac, 1x1 + BT4.1
Color	Black, Texture
Camera	0.3MP
Microphone	Monaural
Keyboard	Non-backlit
Fingerprint Reader	None
Battery	4-cell (32Wh)
Power Adapter	45W
Operating System	Windows 10 Home 64
Warranty	1-year, Depot
Ann Date (mm/yy)	05/17

