

# Lenovo V110 (15") 80TD009E++

|                                     |                    |
|-------------------------------------|--------------------|
| Machine Type                        | Microphone         |
| 80TD                                | Monaural           |
| Region                              | Keyboard           |
| EMEA                                | Non-backlit        |
| Processor                           | Fingerprint Reader |
| AMD A4-9120 (2C, 2.2 / 2.5GHz, 1MB) | None               |
| Graphics                            | Battery            |
| Integrated AMD Radeon R3 Graphics   | 3-cell (24Wh)      |
| Memory                              | Power Adapter      |
| 4GB DDR4-2133 Soldered              | 45W                |
| Display                             | Operating System   |
| 15.6" HD (1366x768)                 | None               |
| Multi-touch                         | Warranty           |
| None                                | 1-year, Depot      |
| Storage                             | Ann Date (mm/yy)   |
| 500GB 5400rpm                       | 06/18              |
| Optical                             |                    |
| DVD±RW                              |                    |
| Ethernet                            |                    |
| 100/1000M                           |                    |
| WLAN + Bluetooth                    |                    |
| 11ac, 1x1 + BT4.1                   |                    |
| Color                               |                    |
| Black, Texture                      |                    |
| Camera                              |                    |
| 0.3MP                               |                    |

|   |
|---|
| Note:   |
| * Country Code "US" is for United States, "++" is for EMEA countries (e.g. AD - Saudi, Arabia, AT - Austria, BM - Bulgaria, etc.), "xx" is for EAST countries (e.g. BM - Bulgaria, CX - Hungary, CY - Cyprus, etc.), and "***" is for MEA countries (e.g. AD - Saudi, Arabia, ED - Egypt, EQ - Sweden, etc.). Please be aware that the EMEA/ EAST/MEA models listed above might not be available in all countries |



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# Lenovo V110 (15") Platform Specifications

Product Specifications Reference (PSREF)

|   |  |                |                     |                   |                     |                         |                       |  |  |   |  |  |  |  |
|---|--|----------------|---------------------|-------------------|---------------------|-------------------------|-----------------------|--|--|---|--|--|--|--|
| Processor   | V110-15ISK: Intel® Celeron® Processor, Intel Pentium® Processor, or 6th Generation Intel Core™ i3 / i5 Processor   |                |                     |                   |                     |                         |                       |  | Display  | Some: 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio   |  |  |  |  |
|   | Processor Number   | # of Cores     | # of Threads        | Base Frequency    | Max Turbo Frequency | Cache                   | Memory Types          | Processor Graphics   |  | Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio |  |  |  |  |
| Cel 3855U   | 2  | 4              | 2                   | 1.6 GHz           | -                   | 2MB                     | DDR4-2133             | Intel HD Graphics 510  | Multi-touch  | None  |  |  |  |  |
| Pen 4405U   |  |                | 2.1 GHz             | 2MB               |                     | Storage                 |                       |  | Some: SSD / SATA 6.0Gb/s, 2.5" wide  |   |  |  |  |  |
| i3-6006U  |  |                | 2.0 GHz             | 3MB               |                     | SATA controller         |                       |  | Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high                       |   |  |  |  |  |
| i3-6100U  |  |                | 2.3 GHz             | 3MB               |                     | Optical (optional)      |                       |  | Some: SSHD with 8GB NAND flash memory  |   |  |  |  |  |
| i5-6200U  |  |                | 2.3 GHz             | 2.8 GHz           |                     | 3MB                     |                       |  | Ethernet   | Serial ATA, SATA 6.0Gb/s support, integrated in processor                                   |  |  |  |  |
| V110-15IAP: Intel Celeron Processor or Intel Pentium Processor  |  |                |                     |                   |                     |                         |                       |  | WLAN   | DVD burner, 9.0mm high, fixed, tray-in  |  |  |  |  |
| Processor Number  | # of Cores   | # of Threads   | Base Frequency      | Burst Frequency   | Cache               | Memory Types            | Processor Graphics    | Bluetooth™   | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter        |   |  |  |  |  |
| Cel N3350   | 2  | 2              | 1.1 GHz             | 2.4 GHz           | 2MB                 | DDR3L-1600              | Intel HD Graphics 500 | Dimensions   | WxDxH: 14.96" x 10.31" x 0.90"; 380mm x 262mm x 22.9mm                       |   |  |  |  |  |
| Cel N3450   | 4  | 4              |                     | 2.2 GHz           |                     |                         |                       | Weight   | 1.9 kg (4.19 lb)   |   |  |  |  |  |
| Pen N4200   |  |                |                     | 2.5 GHz           |                     |                         |                       | Case color   | Black texture  |   |  |  |  |  |
| V110-15IKB: Intel® Celeron® Processor, Intel Pentium® Processor, or 7th Generation Intel Core™ i3 / i5 Processor  |  |                |                     |                   |                     |                         |                       | Case material  | Case material  |   |  |  |  |  |
| Processor Number  | # of Cores   | # of Threads   | Base Frequency      | Burst Frequency   | Cache               | Memory Types            | Processor Graphics    | Media reader   | 4-in-1 reader (MMC, SD, SDHC, SDXC)  |   |  |  |  |  |
| Cel 3865U   | 2  | 4              | 2                   | 1.8 GHz           | -                   | 3MB                     | DDR4-2133             | Ports  | One USB 3.1 Gen 1 / USB3.0, one USB 2.0, HDMI, Ethernet (RJ-45)              |   |  |  |  |  |
| Pen 4415U   |  |                | 2.3 GHz             | Camera (optional) |                     |                         |                       | 0.3MP, fixed focus   |  |   |  |  |  |  |
| i3-7100U  |  |                | 2.4 GHz             | Audio support     |                     |                         |                       | HD Audio, monaural speaker, 1.5W x 1 / optional monaural digital microphone, combo audio/microphone jack |  |   |  |  |  |  |
| i5-7200U  |  |                | 2.5 GHz             | 3.1 GHz           |                     |                         |                       | Keyboard   | 6-row, multimedia Fn keys, numeric keypad                                    |   |  |  |  |  |
| V110-15AST: AMD A-Series or E-Series APUs   |  |                |                     |                   |                     |                         |                       | Touchpad   | 2-button touchpad, multi-touch   |   |  |  |  |  |
| Processor Number  | # of Cores   | Base Frequency | Max Turbo Frequency | Cache             | Memory Types        | Processor Graphics      |                       | Security   | Power-on password, hard disk password, supervisor password, security keyhole |   |  |  |  |  |
| E2-9010   | 2  | 2.0 GHz        | 2.2 GHz             | 1MB               | DDR4-1866           | AMD Radeon™ R2 Graphics |                       | Security chip  | Firmware TPM 2.0, integrated in chipset                                      |   |  |  |  |  |
| A4-9120   |  | 2.2 GHz        | 2.5 GHz             |                   |                     |                         |                       | Fingerprint reader   | None   |   |  |  |  |  |
| A6-9210   |  | 2.4 GHz        | 2.8 GHz             |                   | DDR4-2133           | AMD Radeon R3 Graphics  |                       | Battery  | V110-15ISK: Integrated Li-Ion 4-cell (32Wh) battery                          |   |  |  |  |  |
| A9-9410   |  | 2.9 GHz        | 3.5 GHz             |                   |                     |                         |                       | V110-15AP: Integrated Li-Ion 3-cell (24Wh) battery   |  |   |  |  |  |  |
| V110-15IKB: 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; V110-15IAP: Intel HD Graphics 500 or 505 in processor only; V110-15AST: 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; V110-15AST: supports independent display; |  |                |                     |                   |                     |                         |                       | V110-15KB: Integrated Li-Ion 4-cell (32Wh) battery   | V110-15AST: Integrated Li-Ion 3-cell (24Wh) battery                          |   |  |  |  |  |
| Graphics  | V110-15ISK: 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; V110-15IAP: Intel HD Graphics 500 or 505 in processor only; V110-15IKB: Intel HD Graphics 610 or 620 in processor only, or Intel HD Graphics 610 or 620 in processor and AMD Radeon 530, 2GB memory; V110-15AST: 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; V110-15AST: supports independent display; |                |                     |                   |                     |                         |                       |  | Up to 6 hr   | 45W or 65W AC adapter   |  |  |  |  |
|   |  |                |                     |                   |                     |                         |                       |  | Preload  | Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 |  |  |  |  |
|   |  |                |                     |                   |                     |                         |                       |  |  | Some: Windows 10 Home 64  |  |  |  |  |
|   |  |                |                     |                   |                     |                         |                       |  | • Adobe® Reader®   | Some: Windows 10 Pro 64   |  |  |  |  |
|   |  |                |                     |                   |                     |                         |                       |  | • Microsoft® Office preloaded; purchase a product key to activate            | • Lenovo Companion  |  |  |  |  |
|   |  |                |                     |                   |                     |                         |                       |  | • McAfee® LiveSafe™ (30-day trial)   | • Microsoft Office preloaded; purchase a product key to activate                            |  |  |  |  |
|   |  |                |                     |                   |                     |                         |                       |  |  | • McAfee® LiveSafe™ (30-day trial)  |  |  |  |  |
| V110-15ISK: Intel or AMD SoC (System on Chip) platform  |  |                |                     |                   |                     |                         |                       | Limited warranty   | One of the following, configurable by model:                                 |   |  |  |  |  |
| V110-15ISK: 16GB max / 2133MHz DDR4, dual-channel capable, 4GB memory soldered to systemboard, one DDR4 SO-DIMM socket  |  |                |                     |                   |                     |                         |                       |  | • 1-year depot repair service  |   |  |  |  |  |
| V110-15IAP: 8GB max / 1600MHz DDR3L, dual-channel capable, optional 2GB memory soldered to systemboard, one DDR3L SO-DIMM socket  |  |                |                     |                   |                     |                         |                       |  | • 2-year/1-yr battery depot repair service                                   |   |  |  |  |  |
| V110-15IKB: 16GB max / 2400MHz DDR4, dual-channel capable, 4GB memory soldered to systemboard, one DDR4 SO-DIMM socket  |  |                |                     |                   |                     |                         |                       |  |  |   |  |  |  |  |
| V110-15AST: 8GB max / 2133MHz DDR4, dual-channel capable, 4GB memory soldered to systemboard, one DDR4 SO-DIMM socket   |  |                |                     |                   |                     |                         |                       | Environment  | EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant                              |   |  |  |  |  |
| * System clocks down for processors with lower memory controller  |  |                |                     |                   |                     |                         |                       |  |  |   |  |  |  |  |

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