



# T1A Lenovo ThinkPad T450s Refurbished Laptop 35.6 cm (14") Full HD Intel® Core™ i5 i5-5300U 8 GB DDR3L-SDRAM 240 GB SSD Windows 10 Pro Black



**Brand :** T1A

**Product code:** L-T450S-UK-T008

**Product name :** Lenovo ThinkPad T450s Refurbished

- Windows 10 Pro 64-bit  
 - Intel Core i5-5300U (3MB Cache, 2.3GHz)  
 - 35.6 cm (14") Full HD 1920 x 1080 IPS  
 - 8GB (1600MHz) DDR3L-SDRAM & 240GB SSD  
 Intel Core i5-5300U (3MB Cache, 2.3GHz), 8GB DDR3L-SDRAM, 240GB SSD, 35.6 cm (14") Full HD 1920 x 1080 IPS, Intel HD Graphics 5500, LAN, WLAN, Webcam, Windows 10 Pro 64-bit  
 T1A Lenovo ThinkPad T450s Refurbished. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-5300U, Processor frequency: 2.3 GHz. Display diagonal: 35.6 cm (14"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 240 GB, Storage media: SSD. On-board graphics card model: Intel® HD Graphics 5500. Operating system installed: Windows 10 Pro. Product colour: Black



| Design                          |                                    | Ports & interfaces                                       |                   |
|---------------------------------|------------------------------------|--|-------------------|
| Product type *                  | Laptop                             | Combo headphone/mic port                                 | ✓                 |
| Product colour *                | Black                              | USB Sleep-and-Charge                                     | ✓                 |
| Form factor *                   | Clamshell                          | USB Sleep-and-Charge ports                               | 1                 |
| Refurbished                     | ✓                                  | <b>Keyboard</b>  |                   |
| Display                         |                                    | Pointing device  | ThinkPad UltraNav |
| Display diagonal *              | 35.6 cm (14")                      | Keyboard language  | UK English        |
| Display resolution *            | 1920 x 1080 pixels                 | Numeric keypad *   | ✗                 |
| HD type                         | Full HD                            | Keyboard backlit   | ✓                 |
| Panel type                      | IPS                                | Spill-resistant keyboard                                 | ✓                 |
| LED backlight                   | ✓                                  | Software   |                   |
| Native aspect ratio             | 16:9                               | Operating system architecture                            | 64-bit            |
| Display brightness              | 300 cd/m <sup>2</sup>              | Operating system installed *                             | Windows 10 Pro    |
| Contrast ratio (typical)        | 700:1                              | Processor special features                               |                   |
| Processor                       |                                    | Intel® Wireless Display (Intel® WiDi)                    | ✓                 |
| Processor manufacturer *        | Intel                              | Intel® Smart Response Technology                         | ✓                 |
| Processor generation            | 5th gen Intel® Core™ i5            | Intel® Identity Protection Technology (Intel® IPT)       | ✓                 |
| Processor family *              | Intel® Core™ i5                    | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓                 |
| Processor model *               | i5-5300U                           | Intel® Turbo Boost Technology                            | 2.0               |
| Processor frequency *           | 2.3 GHz                            | Intel® Small Business Advantage (Intel® SBA)             | ✓                 |
| Processor boost frequency       | 2.9 GHz                            | Enhanced Intel SpeedStep Technology                      | ✓                 |
| Processor threads               | 4                                  | Intel® Clear Video HD Technology (Intel® CVT HD)         | ✓                 |
| System bus rate                 | 5 GT/s                             | Intel Clear Video Technology                             | ✓                 |
| Processor cores                 | 2                                  | Intel® InTru™ 3D Technology                              | ✓                 |
| Processor cache                 | 3 MB                               | Intel® Insider™  | ✓                 |
| Processor cache type            | L3                                 | Intel® Quick Sync Video Technology                       | ✓                 |
| Processor socket                | BGA 1168                           | Intel Flex Memory Access                                 | ✓                 |
| Processor lithography           | 14 nm                              | Intel® Smart Cache                                       | ✓                 |
| Processor operating modes       | 32-bit, 64-bit                     | Intel® AES New Instructions (Intel® AES-NI)              | ✓                 |
| Processor series                | Intel® Core™ i5-5300 Mobile Series | Intel Trusted Execution Technology                       | ✓                 |
| Processor codename              | Broadwell                          |  |                   |
| Bus type                        | DMI2                               |  |                   |
| Stepping                        | F0                                 |  |                   |
| Thermal Design Power (TDP)      | 15 W                               |  |                   |
| Configurable TDP-down           | 7.5 W                              |  |                   |
| Configurable TDP-down frequency | 0.6 GHz                            |  |                   |

| Processor                                      |                         | Processor special features  |                           |
|--|-------------------------|---|---------------------------|
| Tjunction                                      | 105 °C                  | Intel Enhanced Halt State   | ✓                         |
| Maximum number of PCI Express lanes            | 12                      | Intel VT-x with Extended Page Tables (EPT)                                    | ✓                         |
| PCI Express slots version                      | 2.0                     | Intel® Secure Key   | ✓                         |
| PCI Express configurations                     | 4x1, 2x4                | Intel TSX-NI  | ✓                         |
| Memory   |                         | Intel Stable Image Platform Program (SIPP)                                    | ✓                         |
| Internal memory *                              | 8 GB                    | Intel® OS Guard   | ✓                         |
| Internal memory type                           | DDR3L-SDRAM             | Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID) | ✓                         |
| Memory clock speed                             | 1600 MHz                | Intel 64  | ✓                         |
| Memory form factor                             | On-board + SO-DIMM      | Execute Disable Bit   | ✓                         |
| Memory slots                                   | 1x SO-DIMM              | Idle States   | ✓                         |
| Maximum internal memory *                      | 12 GB                   | Thermal Monitoring Technologies   | ✓                         |
| Storage  |                         | Processor package size  | 40 x 24 x 1.3 mm          |
| Total storage capacity *                       | 240 GB                  | Supported instruction sets  | AVX 2.0                   |
| Storage media *                                | SSD                     | Processor code  | SR23X                     |
| Total SSDs capacity                            | 240 GB                  | CPU configuration (max)   | 1                         |
| Number of SSDs installed                       | 1                       | Embedded options available  | ✗                         |
| SSD capacity                                   | 240 GB                  | Graphics & IMC lithography  | 14 nm                     |
| Optical drive type *                           | ✗                       | Intel Virtualization Technology for Directed I/O (VT-d)                       | ✓                         |
| Card reader integrated                         | ✓                       | Intel Identity Protection Technology version                                  | 1.00                      |
| Compatible memory cards                        | SD, SDHC, SDXC          | Intel Smart Response Technology version                                       | 1.00                      |
| Graphics                                       |                         | Intel Stable Image Platform Program (SIPP) version                            | 1.00                      |
| On-board graphics card *                       | ✓                       | Intel Secure Key Technology version   | 1.00                      |
| On-board GPU manufacturer                      | Intel                   | Intel Small Business Advantage (SBA) version                                  | 1.00                      |
| On-board graphics card model *                 | Intel® HD Graphics 5500 | Intel TSX-NI version  | 1.00                      |
| On-board graphics card base frequency          | 300 MHz                 | Intel Virtualization Technology (VT-x)  | ✓                         |
| On-board graphics card dynamic frequency (max) | 900 MHz                 | Intel FDI Technology  | ✓                         |
| Maximum on-board graphics card memory          | 16 GB                   | Intel Fast Memory Access  | ✓                         |
| On-board graphics card DirectX version         | 11.2                    | Processor ARK ID  | 85213                     |
| On-board graphics card ID                      | 0x1616                  | Conflict-Free processor   | ✓                         |
| Audio  |                         | Security  |                           |
| Audio chip                                     | Realtek ALC3232         | Cable lock slot   | ✓                         |
| Number of built-in speakers                    | 2                       | Trusted Platform Module (TPM)   | ✓                         |
| Speaker power                                  | 2 W                     | Password protection   | ✓                         |
| Built-in microphone                            | ✓                       | Password protection type  | HDD, Power on, Supervisor |
| Number of microphones                          | 2                       | Weight & dimensions   |                           |
| Camera   |                         | Width   | 331 mm                    |
| Front camera                                   | ✓                       | Depth   | 226 mm                    |
| Front camera HD type                           | HD                      | Network   |                           |
| Network  |                         | Antenna type  | 2x2                       |
| Ethernet LAN                                   | ✓                       | Ethernet LAN  | ✓                         |
| Bluetooth                                      | ✓                       | Bluetooth   | ✓                         |
| Bluetooth version                              | 4.0                     | Ports & interfaces  |                           |
| Ports & interfaces                             |                         | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *                             | 3                         |
| Ethernet LAN (RJ-45) ports                     | 1                       | Ethernet LAN (RJ-45) ports  | 1                         |
| Mini DisplayPorts quantity                     | 1                       | Mini DisplayPorts quantity  | 1                         |
| VGA (D-Sub) ports quantity                     | 1                       | VGA (D-Sub) ports quantity  | 1                         |



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