



## Lenovo ThinkPad T440s Intel® Core™ i7 i7-4600U Laptop 14" Full HD 8 GB DDR3-SDRAM 256 GB SSD Windows 8 Pro Black

**Brand :** Lenovo

**Product family:** ThinkPad

**Article code:** 20AR0018US



**Product name :** ThinkPad T440s

Intel Core i7-4600U (2.1 GHz), 8GB RAM, 256GB SSD, 14.0" FHD (1920x1080), Intel HD Graphics 4400, Bluetooth 4.0, Windows 8 Pro 64

Lenovo ThinkPad T440s. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-4600U, Processor frequency: 2.1 GHz. Display diagonal: 14", HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 256 GB, Storage media: SSD. On-board graphics card model: Intel® HD Graphics 4400. Operating system installed: Windows 8 Pro. Product color: Black

| Design                              |                                  | Processor special features                                                    |     |
|-------------------------------------|----------------------------------|-------------------------------------------------------------------------------|-----|
| Product type *                      | Laptop                           | Intel® Wireless Display (Intel® WiDi)                                         | ✓   |
| Product color *                     | Black                            | Intel® My WiFi Technology (Intel® MWT)                                        | ✗   |
| Form factor *                       | Clamshell                        | Intel Smart Connect Technology                                                | ✓   |
| Display                             |                                  | Intel® Anti-Theft Technology (Intel® AT)                                      | ✓   |
| Display diagonal *                  | 14"                              | Intel® Smart Response Technology                                              | ✓   |
| Display resolution *                | 1920 x 1080 pixels               | Intel® Identity Protection Technology (Intel® IPT)                            | ✓   |
| Touchscreen *                       | ✗                                | Intel® Hyper Threading Technology (Intel® HT Technology)                      | ✓   |
| HD type                             | Full HD                          | Intel® Turbo Boost Technology                                                 | 2.0 |
| Panel type                          | IPS                              | Intel® Small Business Advantage (Intel® SBA)                                  | ✓   |
| LED backlight                       | ✓                                | Intel® Matrix Storage Technology (Intel® MST)                                 | ✓   |
| Native aspect ratio                 | 16:9                             | Intel® High Definition Audio (Intel® HD Audio)                                | ✓   |
| Display brightness                  | 300 cd/m²                        | Enhanced Intel SpeedStep Technology                                           | ✓   |
| Dual-screen                         | ✗                                | Intel® Clear Video HD Technology (Intel® CVT HD)                              | ✓   |
| Contrast ratio (typical)            | 700:1                            | Intel Clear Video Technology                                                  | ✗   |
| Processor                           |                                  | Intel® InTru™ 3D Technology                                                   | ✓   |
| Processor manufacturer *            | Intel                            | Intel® Insider™                                                               | ✓   |
| Processor family *                  | Intel® Core™ i7                  | Intel® Quick Sync Video Technology                                            | ✓   |
| Processor generation                | 4th gen Intel® Core™ i7          | Intel Flex Memory Access                                                      | ✗   |
| Processor model *                   | i7-4600U                         | Intel® Smart Cache                                                            | ✓   |
| Processor cores                     | 2                                | Intel® AES New Instructions (Intel® AES-NI)                                   | ✓   |
| Processor threads                   | 4                                | Intel Trusted Execution Technology                                            | ✓   |
| Processor boost frequency           | 3.3 GHz                          | Intel Enhanced Halt State                                                     | ✓   |
| Processor frequency *               | 2.1 GHz                          | Intel VT-x with Extended Page Tables (EPT)                                    | ✓   |
| System bus rate                     | 5 GT/s                           | Intel Demand Based Switching                                                  | ✗   |
| Processor cache                     | 4 MB                             | Intel® Secure Key                                                             | ✓   |
| Processor cache type                | Smart Cache                      | Intel TSX-NI                                                                  | ✗   |
| Processor socket                    | BGA 1168                         | Intel Stable Image Platform Program (SIPP)                                    | ✓   |
| Processor lithography               | 22 nm                            | Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID) | ✗   |
| Processor operating modes           | 64-bit                           |                                                                               |     |
| Processor series                    | Intel Core i7-4600 Mobile series |                                                                               |     |
| Processor codename                  | Haswell                          |                                                                               |     |
| Bus type                            | DMI2                             |                                                                               |     |
| FSB Parity                          | ✗                                |                                                                               |     |
| Stepping                            | D0                               |                                                                               |     |
| Thermal Design Power (TDP)          | 15 W                             |                                                                               |     |
| Tjunction                           | 100 °C                           |                                                                               |     |
| Maximum number of PCI Express lanes | 12                               |                                                                               |     |
| PCI Express slots version           | 2.0                              |                                                                               |     |
| PCI Express configurations          | 4x1, 2x4                         |                                                                               |     |

| Processor                                         |                         | Processor special features                              |                         |
|---------------------------------------------------|-------------------------|---------------------------------------------------------|-------------------------|
| ECC supported by processor                        | ✗                       | Intel 64                                                | ✓                       |
| Memory                                            |                         | Execute Disable Bit                                     | ✓                       |
| Internal memory *                                 | 8 GB                    | Idle States                                             | ✓                       |
| Internal memory type                              | DDR3-SDRAM              | Thermal Monitoring Technologies                         | ✓                       |
| Memory clock speed                                | 1600 MHz                | Processor package size                                  | 40 x 24 x 1.5 mm        |
| Maximum internal memory *                         | 12 GB                   | Supported instruction sets                              | AVX 2.0, SSE4.1, SSE4.2 |
| Storage                                           |                         | Processor code                                          | SR1EA                   |
| Total storage capacity *                          | 256 GB                  | CPU configuration (max)                                 | 1                       |
| Storage media *                                   | SSD                     | Embedded options available                              | ✗                       |
| Number of SSDs installed                          | 1                       | Intel Virtualization Technology for Directed I/O (VT-d) | ✓                       |
| SSD capacity                                      | 256 GB                  | Intel Smart Connect Technology version                  | 1.00                    |
| SSD interface                                     | SATA II                 | Intel Identity Protection Technology version            | 1.00                    |
| Optical drive type *                              | ✗                       | Intel Smart Response Technology version                 | 1.00                    |
| Card reader integrated                            | ✓                       | Intel Stable Image Platform Program (SIPP) version      | 1.00                    |
| Compatible memory cards                           | MMC, SD, SDHC, SDXC     | Intel Secure Key Technology version                     | 1.00                    |
| Graphics                                          |                         | Intel Small Business Advantage (SBA) version            | 1.00                    |
| On-board graphics card *                          | ✓                       | Intel ME Firmware Version                               | 9.5                     |
| On-board graphics card family                     | Intel® HD Graphics      | Intel TSX-NI version                                    | 0.00                    |
| On-board graphics card model *                    | Intel® HD Graphics 4400 | Intel Virtualization Technology (VT-x)                  | ✓                       |
| On-board graphics card base frequency             | 200 MHz                 | Intel Dual Display Capable Technology                   | ✗                       |
| On-board graphics card dynamic frequency (max)    | 1100 MHz                | Intel FDI Technology                                    | ✓                       |
| Maximum on-board graphics card memory             | 1.74 GB                 | Intel Rapid Storage Technology                          | ✓                       |
| On-board graphics card DirectX version            | 11.2/12                 | Intel Fast Memory Access                                | ✗                       |
| On-board graphics card OpenGL version             | 4.3                     | Processor ARK ID                                        | 76616                   |
| On-board graphics card ID                         | 0xA16                   | Conflict-Free processor                                 | ✓                       |
| Audio                                             |                         | Battery                                                 |                         |
| Audio system                                      | Dolby Home Theater v4   | Number of battery cells                                 | 3                       |
| Number of built-in speakers                       | 2                       | Battery life (max)                                      | 8.4 h                   |
| Speaker power                                     | 1 W                     | Power                                                   |                         |
| Built-in microphone                               | ✓                       | AC adapter power                                        | 45 W                    |
| Camera                                            |                         | AC adapter frequency                                    | 50 - 60 Hz              |
| Front camera                                      | ✓                       | AC adapter input voltage                                | 100 - 240 V             |
| Front camera resolution                           | 1280 x 720 pixels       | DC-in jack                                              | ✓                       |
| Network                                           |                         | Security                                                |                         |
| Ethernet LAN                                      | ✓                       | Cable lock slot                                         | ✗                       |
| Ethernet LAN data rates                           | 10,100,1000 Mbit/s      | Fingerprint reader                                      | ✓                       |
| Bluetooth                                         | ✓                       | Trusted Platform Module (TPM)                           | ✓                       |
| Bluetooth version                                 | 4.0                     | Password protection                                     | ✓                       |
| Ports & interfaces                                |                         | Certificates                                            |                         |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 3                       | Compliance certificates                                 | RoHS                    |
| Ethernet LAN (RJ-45) ports                        | 1                       | Sustainability                                          |                         |
| Mini DisplayPorts quantity                        | 1                       | Sustainability certificates                             | EPEAT Gold, ENERGY STAR |
| DVI port                                          | ✗                       | Weight & dimensions                                     |                         |
| Mini DisplayPort/Thunderbolt combo port           | ✗                       | Width                                                   | 13" (331 mm)            |
| VGA (D-Sub) ports quantity                        | 1                       | Depth                                                   | 8.9" (226 mm)           |
| LAN/VGA combo port                                | ✗                       | Height                                                  | 0.813" (20.6 mm)        |
| Headphone outputs                                 | 1                       | Weight *                                                | 3.51 lbs (1.59 kg)      |
| Microphone in                                     | ✓                       | Packaging content                                       |                         |
| Combo headphone/mic port                          | ✓                       | AC adapter included *                                   | ✓                       |
| Docking connector                                 | ✓                       |                                                         |                         |

| Ports & interfaces            |                   | Packaging content     |                             |
|-------------------------------|-------------------|-----------------------|-----------------------------|
| ExpressCard slot              | ✗                 | Manual                | ✓                           |
| CardBus PCMCIA slot type      | ✗                 | Quick start guide     | ✓                           |
| Headphone connectivity        | 3.5 mm            | Power cord included   | ✓                           |
| Microphone connectivity       | 3.5 mm            | Other features        |                             |
| Number of SATA III connectors | 4                 | LightScribe           | ✗                           |
| USB Sleep-and-Charge          | ✓                 | TV tuner integrated   | ✗                           |
| USB Sleep-and-Charge ports    | 1                 | 64-bit computing      | ✓                           |
| Keyboard                      |                   | Intel segment tagging | Home office, Small Business |
| Pointing device               | ThinkPad UltraNav |                       |                             |
| Numeric keypad *              | ✗                 |                       |                             |
| Keyboard backlit              | ✓                 |                       |                             |
| Spill-resistant keyboard      | ✓                 |                       |                             |
| Windows keys                  | ✓                 |                       |                             |
| Built-in touchpad             | ✓                 |                       |                             |
| Software                      |                   |                       |                             |
| Operating system architecture | 64-bit            |                       |                             |
| Operating system installed *  | Windows 8 Pro     |                       |                             |

## Catalog Object Cloud



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