



## Lenovo ThinkPad X240 Intel® Core™ i7 i7-4600U Laptop 31,8 cm (12.5") Touchscreen 8 GB DDR3-SDRAM 128 GB SSD Windows 8 Pro Black



**Brand :** Lenovo

**Product family:** ThinkPad

**Product code:** 20AL0011AT

**Product name :** X240

Intel Core i7-4600U (2.1 GHz), 8GB RAM, 128GB SSD, 12.5" HD (1366x768) MultiTouch, Intel HD Graphics 4400, 802.11ac/a/b/g/n, Bluetooth 4.0, Windows 8 Pro 64  
Lenovo ThinkPad X240. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-4600U, Processor frequency: 2,1 GHz. Display diagonal: 31,8 cm (12.5"), Display resolution: 1366 x 768 pixels, Touchscreen. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 128 GB, Storage media: SSD. Mobile network generation: 3G. Operating system installed: Windows 8 Pro. Product colour: Black



| Design                    |                                  | Keyboard   |               |
|---------------------------|----------------------------------|--|---------------|
| Product type *            | Laptop                           | Windows keys   | ✓             |
| Product colour *          | Black                            | <b>Software</b>  |               |
| Form factor *             | Clamshell                        | Operating system architecture                            | 64-bit        |
| Housing material          | Plastic                          | Operating system installed *                             | Windows 8 Pro |
| Display                   |                                  | Processor special features                               |               |
| Touchscreen type          | Capacitive                       | Intel® Wireless Display (Intel® WiDi)                    | ✓             |
| Display diagonal *        | 31,8 cm (12.5")                  | Intel® My WiFi Technology (Intel® MWT)                   | ✗             |
| Display resolution *      | 1366 x 768 pixels                | Intel Smart Connect Technology                           | ✓             |
| Touchscreen *             | ✓                                | Intel® Anti-Theft Technology (Intel® AT)                 | ✓             |
| HD type                   | Not supported                    | Intel® Smart Response Technology                         | ✓             |
| Touch technology          | Multi-touch                      | Intel® Identity Protection Technology (Intel® IPT)       | ✓             |
| Panel type                | IPS                              | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓             |
| LED backlight             | ✓                                | Intel® Turbo Boost Technology                            | 2.0           |
| Native aspect ratio       | 16:9                             | Intel® Small Business Advantage (Intel® SBA)             | ✓             |
| Display brightness        | 300 cd/m²                        | Intel® Matrix Storage Technology (Intel® MST)            | ✗             |
| Dual-screen               | ✗                                | Intel® High Definition Audio (Intel® HD Audio)           | ✓             |
| Contrast ratio (typical)  | 700:1                            | Enhanced Intel SpeedStep Technology                      | ✓             |
| Processor                 |                                  | Intel® Clear Video HD Technology (Intel® CVT HD)         | ✓             |
| Processor manufacturer *  | Intel                            | Intel Clear Video Technology                             | ✗             |
| Processor family *        | Intel® Core™ i7                  | Intel® InTru™ 3D Technology                              | ✓             |
| Processor generation      | 4th gen Intel® Core™ i7          | Intel® Insider™  | ✓             |
| Processor model *         | i7-4600U                         | Intel® Quick Sync Video Technology                       | ✓             |
| Processor cores           | 2                                | Intel Flex Memory Access                                 | ✗             |
| Processor threads         | 4                                | Intel® Smart Cache                                       | ✓             |
| Processor boost frequency | 3,3 GHz                          | Intel® AES New Instructions (Intel® AES-NI)              | ✓             |
| Processor frequency *     | 2,1 GHz                          | Intel Trusted Execution Technology                       | ✓             |
| System bus rate           | 5 GT/s                           | Intel Enhanced Halt State                                | ✓             |
| Processor cache           | 4 MB                             |  |               |
| Processor cache type      | Smart Cache                      |  |               |
| Processor socket          | BGA 1168                         |  |               |
| Processor lithography     | 22 nm                            |  |               |
| Processor operating modes | 64-bit                           |  |               |
| Processor series          | Intel Core i7-4600 Mobile series |  |               |
| Processor codename        | Haswell                          |  |               |
| Bus type                  | DMI2                             |  |               |
| FSB Parity                | ✗                                |  |               |

| Processor                                      |  | Processor special features  |                         |
|--|--|---|-------------------------|
| Stepping                                       | D0   | Intel VT-x with Extended Page Tables (EPT)                                    | ✓                       |
| Thermal Design Power (TDP)                     | 15 W   | Intel Demand Based Switching  | ✗                       |
| Tjunction                                      | 100 °C   | Intel® Secure Key   | ✓                       |
| Maximum number of PCI Express lanes            | 12   | Intel TSX-NI  | ✗                       |
| PCI Express slots version                      | 2.0  | Intel Stable Image Platform Program (SIPP)                                    | ✓                       |
| PCI Express configurations                     | 4x1, 2x4   | Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID) | ✗                       |
| 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        |
| Memory form factor                             | SO-DIMM  | Supported instruction sets  | AVX 2.0, SSE4.1, SSE4.2 |
| Memory layout (slots x size)                   | 1 x 8 GB   | Processor code  | SR1EA                   |
| Memory slots                                   | 1x SO-DIMM   | CPU configuration (max)   | 1                       |
| Maximum internal memory *                      | 8 GB   | Embedded options available  | ✗                       |
| Storage  |  | Intel Virtualization Technology for Directed I/O (VT-d)                       | ✓                       |
| Total storage capacity *                       | 128 GB   | Intel Smart Connect Technology version  | 1,00                    |
| Storage media *                                | SSD  | Intel Identity Protection Technology version                                  | 1,00                    |
| Number of SSDs installed                       | 1  | Intel Smart Response Technology version                                       | 1,00                    |
| SSD capacity                                   | 128 GB   | Intel Stable Image Platform Program (SIPP) version                            | 1,00                    |
| SSD interface                                  | SATA II  | Intel Secure Key Technology version   | 1,00                    |
| Optical drive type *                           | ✗  | Intel Small Business Advantage (SBA) version                                  | 1,00                    |
| Card reader integrated                         | ✓  | Intel ME Firmware Version   | 9.5                     |
| Compatible memory cards                        | MMC, SD, SDHC, SDXC  | Intel TSX-NI version  | 0,00                    |
| Graphics                                       |  | Intel Virtualization Technology (VT-x)  | ✓                       |
| Discrete graphics card model *                 | Not available  | Intel Dual Display Capable Technology   | ✗                       |
| On-board graphics card *                       | ✓  | Intel FDI Technology  | ✓                       |
| Discrete graphics card *                       | ✗  | Intel Rapid Storage Technology  | ✓                       |
| On-board graphics card family                  | Intel® HD Graphics   | Intel Fast Memory Access  | ✗                       |
| On-board graphics card model *                 | Intel® HD Graphics 4400  | Processor ARK ID  | 76616                   |
| On-board graphics card base frequency          | 200 MHz  | Conflict-Free processor   | ✓                       |
| On-board graphics card dynamic frequency (max) | 1100 MHz   | Battery   |                         |
| Maximum on-board graphics card memory          | 1,74 GB  | Number of battery cells   | 3                       |
| On-board graphics card DirectX version         | 11.2/12  | Battery capacity *  | 23,5 Wh                 |
| On-board graphics card OpenGL version          | 4.3  | Battery life (max)  | 8,7 h                   |
| On-board graphics card ID                      | 0xA16  | Power   |                         |
| Audio  |  | AC adapter power  | 45 W                    |
| Audio system                                   | Dolby Advanced Audio v2  | AC adapter frequency  | 50 - 60 Hz              |
| Number of built-in speakers                    | 2  | AC adapter input voltage  | 100 - 240 V             |
| Speaker power                                  | 3 W  | DC-in jack  | ✓                       |
| Built-in microphone                            | ✓  | Security  |                         |
| Camera   |  | Cable lock slot   | ✗                       |
| Front camera                                   | ✓  | Fingerprint reader  | ✓                       |
| Front camera resolution                        | 1280 x 720 pixels  | Trusted Platform Module (TPM)   | ✓                       |
| Network  |  | Certificates  |                         |
| Mobile network generation                      | 3G   | Compliance certificates   | RoHS                    |
| 3G standards                                   | HSPA+  |   |                         |
| Wi-Fi  | ✓  |   |                         |
| Wi-Fi standards                                | 802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n) |   |                         |
| Mobile network connection *                    | ✓  |   |                         |
| Ethernet LAN                                   | ✓  |   |                         |

| Network   |                    | Sustainability                 |                         |
|---|--------------------|--------------------------------|-------------------------|
| Ethernet LAN data rates                           | 10,100,1000 Mbit/s | Sustainability certificates    | EPEAT Gold, ENERGY STAR |
| Bluetooth   | ✓                  | <b>Weight &amp; dimensions</b> |                         |
| Bluetooth version                                 | 4.0                | Width                          | 305,5 mm                |
| <b>Ports &amp; interfaces</b>                     |                    | Depth                          | 208,5 mm                |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 2                  | Height                         | 21,5 mm                 |
| Ethernet LAN (RJ-45) ports                        | 1                  | Weight *                       | 1,49 kg                 |
| Mini DisplayPorts quantity                        | 1                  | <b>Packaging content</b>       |                         |
| DVI port  | ✗                  | AC adapter included *          | ✓                       |
| VGA (D-Sub) ports quantity                        | 1                  | Manual                         | ✓                       |
| Headphone outputs                                 | 1                  | Quick start guide              | ✓                       |
| S/PDIF out port                                   | ✗                  | Power cord included            | ✓                       |
| Microphone in                                     | ✓                  | <b>Other features</b>          |                         |
| Combo headphone/mic port                          | ✓                  | LightScribe                    | ✗                       |
| Docking connector                                 | ✓                  |                                |                         |
| ExpressCard slot                                  | ✗                  |                                |                         |
| CardBus PCMCIA slot type                          | ✗                  |                                |                         |
| SmartCard slot                                    | ✗                  |                                |                         |
| Number of SATA III connectors                     | 4                  |                                |                         |
| USB Sleep-and-Charge                              | ✓                  |                                |                         |
| USB Sleep-and-Charge ports                        | 1                  |                                |                         |
| <b>Keyboard</b>                                   |                    |                                |                         |
| Numeric keypad *                                  | ✗                  |                                |                         |
| Spill-resistant keyboard                          | ✓                  |                                |                         |

## Catalog Object Cloud



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