



## Lenovo ThinkPad X1 Carbon Intel® Core™ i5 i5-3427U Ultrabook 35,6 cm (14") HD+ 4 GB DDR3L-SDRAM 120 GB SSD Windows 8 Pro Black



**Brand :** Lenovo

**Product family:** ThinkPad

**Product code:** N3KAVUK

**Product name :** X1 Carbon



14" LED HD+ 1600 x 900, Intel Core i5-3427U (3MB Cache, 1.8 GHz), 4GB DDR3L, 120GB SSD, Intel HD Graphics 4000, WLAN, Windows 8 Pro 64-bit

Lenovo ThinkPad X1 Carbon. Product type: Ultrabook, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-3427U, Processor frequency: 1,8 GHz. Display diagonal: 35,6 cm (14"), HD type: HD+, Display resolution: 1600 x 900 pixels. Internal memory: 4 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 120 GB, Storage media: SSD. On-board graphics card model: Intel® HD Graphics 4000. Operating system installed: Windows 8 Pro. Product colour: Black

| Design                              |                                  | Software  |               |
|-------------------------------------|----------------------------------|---|---------------|
| Product type *                      | Ultrabook                        | Operating system architecture   | 64-bit        |
| Product colour *                    | Black                            | Recovery operating system   | Windows 8 Pro |
| Form factor *                       | Clamshell                        | Operating system installed *  | Windows 8 Pro |
| Display                             |                                  | Processor special features  |               |
| Display diagonal *                  | 35,6 cm (14")                    | Intel® Wireless Display (Intel® WiDi)   | ✓             |
| Display resolution *                | 1600 x 900 pixels                | Intel® My WiFi Technology (Intel® MWT)  | ✓             |
| HD type                             | HD+                              | Intel® Anti-Theft Technology (Intel® AT)                                      | ✓             |
| LED backlight                       | ✓                                | Intel® Identity Protection Technology (Intel® IPT)                            | ✓             |
| Native aspect ratio                 | 16:9                             | Intel® Hyper Threading Technology (Intel® HT Technology)                      | ✓             |
| Display surface                     | Matt                             | Intel® Turbo Boost Technology   | 2.0           |
| Processor                           |                                  | Enhanced Intel SpeedStep Technology   | ✓             |
| Processor manufacturer *            | Intel                            | Intel® Built-in Visuals Technology  | ✓             |
| Processor family *                  | Intel® Core™ i5                  | Intel HD Graphics   | ✓             |
| Processor generation                | 3rd gen Intel® Core™ i5          | Intel® Clear Video HD Technology (Intel® CVT HD)                              | ✓             |
| Processor model *                   | i5-3427U                         | Intel Clear Video Technology  | ✗             |
| Processor cores                     | 2                                | Intel® InTru™ 3D Technology   | ✓             |
| Processor threads                   | 4                                | Intel® Insider™   | ✓             |
| Processor boost frequency           | 2,8 GHz                          | Intel® Quick Sync Video Technology  | ✓             |
| Processor frequency *               | 1,8 GHz                          | Intel Flex Memory Access  | ✓             |
| System bus rate                     | 5 GT/s                           | Intel® Smart Cache  | ✓             |
| Processor cache                     | 3 MB                             | Intel® AES New Instructions (Intel® AES-NI)                                   | ✓             |
| Processor cache type                | Smart Cache                      | Intel Trusted Execution Technology  | ✓             |
| Processor socket                    | BGA 1023                         | Intel Enhanced Halt State   | ✓             |
| Processor lithography               | 22 nm                            | Intel VT-x with Extended Page Tables (EPT)                                    | ✓             |
| Processor operating modes           | 64-bit                           | Intel Demand Based Switching  | ✗             |
| Processor series                    | Intel Core i5-3400 Mobile Series | Intel® Secure Key   | ✓             |
| Processor codename                  | Ivy Bridge                       | Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID) | ✗             |
| Bus type                            | DMI                              |   |               |
| FSB Parity                          | ✗                                |   |               |
| Stepping                            | L1                               |   |               |
| Thermal Design Power (TDP)          | 17 W                             |   |               |
| Tjunction                           | 105 °C                           |   |               |
| Maximum number of PCI Express lanes | 16                               |   |               |
| PCI Express slots version           | 2.0                              |   |               |
| PCI Express configurations          | 1x16, 2x8, 1x8+2x4               |   |               |
| CPU multiplier (bus/core ratio)     | 18                               |   |               |

| Processor   |                           | Processor special features                              |                            |
|---|---------------------------|---|----------------------------|
| ECC supported by processor                        | ✗                         | Intel 64  | ✓                          |
| Memory  |                           | Execute Disable Bit                                     | ✓                          |
| Internal memory *                                 | 4 GB                      | Idle States   | ✓                          |
| Internal memory type                              | DDR3L-SDRAM               | Thermal Monitoring Technologies                         | ✓                          |
| Memory clock speed                                | 1333 MHz                  | Processor package size                                  | 31 x 24 mm                 |
| Memory form factor                                | On-board                  | Supported instruction sets                              | AVX                        |
| Maximum internal memory *                         | 4 GB                      | Processor code  | SR0N7                      |
| Storage   |                           | CPU configuration (max)                                 | 1                          |
| Total storage capacity *                          | 120 GB                    | Embedded options available                              | ✗                          |
| Storage media *                                   | SSD                       | Graphics & IMC lithography                              | 22 nm                      |
| Number of SSDs installed                          | 1                         | Intel Virtualization Technology for Directed I/O (VT-d) | ✓                          |
| SSD capacity                                      | 120 GB                    | Intel Identity Protection Technology version            | 1,00                       |
| Optical drive type *                              | ✗                         | Intel Secure Key Technology version                     | 1,00                       |
| Card reader integrated                            | ✓                         | Intel Virtualization Technology (VT-x)                  | ✓                          |
| Compatible memory cards                           | MMC, SD, SDHC, SDXC       | Intel Dual Display Capable Technology                   | ✓                          |
| Graphics  |                           | Intel FDI Technology                                    | ✓                          |
| Discrete graphics card model *                    | Not available             | Intel Rapid Storage Technology                          | ✗                          |
| On-board graphics card *                          | ✓                         | Intel Fast Memory Access                                | ✓                          |
| Discrete graphics card *                          | ✗                         | Processor ARK ID  | 64903                      |
| On-board graphics card family                     | Intel® HD Graphics        | Conflict-Free processor                                 | ✓                          |
| On-board graphics card model *                    | Intel® HD Graphics 4000   | Integrated 4G WiMAX                                     | ✓                          |
| On-board graphics card base frequency             | 350 MHz                   | Battery   |                            |
| On-board graphics card dynamic frequency (max)    | 1150 MHz                  | Battery technology                                      | Lithium Polymer (LiPo)     |
| On-board graphics card ID                         | 0x166                     | Number of battery cells                                 | 4                          |
| Audio   |                           | Battery capacity *                                      | 45,8 Wh                    |
| Audio system                                      | Dolby Home Theater v4     | Battery life (max)                                      | 8,2 h                      |
| Number of built-in speakers                       | 2                         | Power   |                            |
| Speaker power                                     | 2 W                       | AC adapter power  | 90 W                       |
| Built-in microphone                               | ✓                         | DC-in jack  | ✓                          |
| Camera  |                           | Security  |                            |
| Front camera                                      | ✓                         | Cable lock slot   | ✓                          |
| Network   |                           | Fingerprint reader                                      | ✓                          |
| Wi-Fi   | ✓                         | Certificates  |                            |
| Wi-Fi standards                                   | 802.11a, 802.11b, 802.11g | Compliance certificates                                 | RoHS                       |
| Ethernet LAN                                      | ✗                         | Sustainability  |                            |
| Bluetooth   | ✓                         | Sustainability certificates                             | EPEAT Gold, ENERGY STAR    |
| Ports & interfaces                                |                           | Weight & dimensions                                     |                            |
| USB 2.0 ports quantity *                          | 1                         | Width   | 331 mm                     |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 1                         | Depth   | 226 mm                     |
| Mini DisplayPorts quantity                        | 1                         | Height (front)  | 8 mm                       |
| DVI port  | ✗                         | Height (rear)   | 1,88 cm                    |
| S/PDIF out port                                   | ✗                         | Weight *  | 1,36 kg                    |
| Microphone in                                     | ✗                         | Packaging content                                       |                            |
| Combo headphone/mic port                          | ✓                         | AC adapter included *                                   | ✓                          |
| Docking connector                                 | ✗                         | Other features  |                            |
| ExpressCard slot                                  | ✗                         | LightScribe   | ✗                          |
| CardBus PCMCIA slot type                          | ✗                         | Intel® Virtualization Technology (Intel® VT)            | VT-x, VT-d                 |
| SmartCard slot                                    | ✗                         | Intel segment tagging                                   | Enterprise, Small Business |
| USB Sleep-and-Charge                              | ✓                         |   |                            |
| USB Sleep-and-Charge ports                        | 1                         |   |                            |
| Performance                                       |                           |   |                            |

Performance

|                     |                     |
|---------------------|---------------------|
| Motherboard chipset | Intel® QS77 Express |
|---------------------|---------------------|

Keyboard

|                          |                   |
|--------------------------|-------------------|
| Pointing device          | ThinkPad UltraNav |
| Numeric keypad *         | ✗                 |
| Spill-resistant keyboard | ✓                 |
| Windows keys             | ✓                 |

## Catalog Object Cloud



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