



## Lenovo ThinkPad X1 Carbon Intel Core Ultra 7 155U Laptop 35,6 cm (14") WUXGA 32 GB LPDDR5x-SDRAM 1 TB SSD Wi-Fi 6E (802.11ax) Windows 11 Pro Zwart

**Merk :** Lenovo

**Productfamilie:** ThinkPad

**Artikelcode:** 21KC004TMH

**Productnaam :** X1 Carbon

- Intel Core Ultra 7 155U, 12C (2P + 8E + 2LPE)/14T, Max Turbo up to 4.8GHz, 12MB
- 14" WUXGA (1920x1200) IPS 400nits 100% sRGB 60Hz Low Power
- 32GB LPDDR5x-6400
- 1TB SSD M.2 2280 PCIe 4.0x4 NVMe Opal 2.0
- Intel Graphics
- Windows 11 Pro

Intel Core Ultra 7 155U, 12C (2P + 8E + 2LPE)/14T, Max Turbo up to 4.8GHz, 12MB, 32GB LPDDR5x-6400, 1TB SSD M.2 2280 PCIe 4.0x4 NVMe Opal 2.0, 14" WUXGA (1920x1200) IPS 400nits 100% sRGB 60Hz Low Power, Intel Graphics, Intel Wi-Fi 6E AX211 802.11ax 2x2 + BT5.3, FHD 1080p + IR Discrete with Privacy Shutter, Windows 11 Pro

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| Design                    |                               | Camera  |                      |
|---------------------------|-------------------------------|---|----------------------|
| Colour name               | Black, Paint                  | Front camera                                      | ✓                    |
| Product type *            | Laptop                        | Front camera resolution                           | 1920 x 1080 pixels   |
| Product colour *          | Black                         | Front camera HD type                              | Full HD              |
| Form factor *             | Clamshell                     | Infrared (IR) camera                              | ✓                    |
| Housing material          | Aluminium, Carbon fibre       | Privacy camera                                    | ✓                    |
| Display                   |                               | Privacy type                                      | Privacy shutter      |
| Display diagonal *        | 35.6 cm (14")                 | Network   |                      |
| Display resolution *      | 1920 x 1200 pixels            | Mobile network generation                         | 5G                   |
| Touchscreen *             | ✗                             | Top Wi-Fi standard *                              | Wi-Fi 6E (802.11ax)  |
| HD type                   | WUXGA                         | Wi-Fi standards                                   | Wi-Fi 6E (802.11ax)  |
| Panel type                | IPS                           | Mobile network connection *                       | ✓                    |
| LED backlight             | ✓                             | Antenna type                                      | 2x2                  |
| Native aspect ratio       | 16:10                         | WLAN controller model                             | Intel Wi-Fi 6E AX211 |
| Anti-glare screen         | ✓                             | WLAN controller manufacturer                      | Intel                |
| Display brightness        | 400 cd/m²                     | Ethernet LAN                                      | ✗                    |
| RGB colour space          | sRGB                          | Bluetooth   | ✓                    |
| Colour gamut              | 100%                          | Bluetooth version                                 | 5.3                  |
| Maximum refresh rate      | 60 Hz                         | Near Field Communication (NFC)                    | ✗                    |
| Contrast ratio (typical)  | 1000:1                        | WWAN  | Installed            |
| Processor                 |                               | WWAN controller                                   | Quectel RM520N-GL    |
| Processor manufacturer *  | Intel                         | Ports & interfaces                                |                      |
| Processor family *        | Intel Core Ultra 7            | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 2                    |
| Processor generation      | Intel® Core™ Ultra (Series 1) | HDMI ports quantity *                             | 1                    |
| Processor model *         | 155U                          | HDMI version                                      | 2.1                  |
| Processor cores           | 12                            | Thunderbolt 4 ports quantity                      | 2                    |
| Processor threads         | 14                            | Intel® Thunderbolt 4                              | ✓                    |
| Processor boost frequency | 4.8 GHz                       |   |                      |
| Performance cores         | 2                             |   |                      |

| Processor                                    |   | Ports & interfaces                    |   |
|--|---|---------------------------------------|---|
| Efficient cores                              | 8                                       | Combo headphone/mic port              | ✓                                       |
| Low Power Efficient-cores                    | 2                                       | USB Type-C DisplayPort Alternate Mode | ✓                                       |
| Performance-core Max Turbo Frequency         | 4.8 GHz                                 | USB Sleep-and-Charge                  | ✓                                       |
| Efficient-core Max Turbo Frequency           | 3.8 GHz                                 | USB Sleep-and-Charge ports            | 1                                       |
| Low Power Efficient-core Max Turbo Frequency | 2.1 GHz                                 | Performance                           |   |
| Performance-core base frequency              | 1.7 GHz                                 | Motherboard chipset                   | Intel SoC                               |
| Efficient-core base frequency                | 1.2 GHz                                 | Keyboard                              |   |
| Low Power Efficient-core Base Frequency      | 700 MHz                                 | Pointing device                       | ThinkPad UltraNav                       |
| Processor cache                              | 12 MB                                   | Keyboard language                     | English                                 |
| Processor cache type                         | Smart Cache                             | Numeric keypad *                      | ✗                                       |
| Processor base power                         | 15 W                                    | Keyboard backlit                      | ✓                                       |
| Maximum turbo power                          | 57 W                                    | Spill-resistant keyboard              | ✓                                       |
| Neural processor unit (NPU)                  |   | Software                              |   |
| Neural processor unit (NPU)                  | Intel AI Boost                          | Operating system architecture         | 64-bit                                  |
| Maximum frequency NPU                        | 1.4 GHz                                 | Operating system language             | German, Dutch, English, French, Italian |
| Sparsity support                             | ✓                                       | Operating system installed *          | Windows 11 Pro                          |
| Windows Studio effects support               | ✓                                       | Bundled software                      | Intel Connectivity Performance Suite    |
| AI datatype support on NPU                   | FP16, FP32, Int8                        | Battery                               |   |
| AI software frameworks supported by NPU      | DirectML, ONNX RT, OpenVINO, Windows ML | Battery technology                    | Lithium Polymer (LiPo)                  |
| Memory                                       |   | Battery capacity *                    | 57 Wh                                   |
| Internal memory *                            | 32 GB                                   | Fast charging                         | ✓                                       |
| Internal memory type                         | LPDDR5x-SDRAM                           | Power                                 |   |
| Memory clock speed                           | 6400 MHz                                | AC adapter power                      | 65 W                                    |
| Memory form factor                           | On-board                                | AC adapter frequency                  | 50/60 Hz                                |
| Maximum internal memory *                    | 32 GB                                   | AC adapter input voltage              | 100 - 240 V                             |
| Memory channels                              | Dual-channel                            | USB Type-C charging port *            | ✓                                       |
| Storage                                      |   | USB Power Delivery (USB PD)           | ✓                                       |
| Total storage capacity *                     | 1 TB                                    | Security                              |   |
| Storage media *                              | SSD                                     | Cable lock slot                       | ✓                                       |
| Total SSDs capacity                          | 1 TB                                    | Cable lock slot type                  | Kensington                              |
| Number of SSDs installed                     | 1                                       | Fingerprint reader                    | ✓                                       |
| SSD capacity                                 | 1 TB                                    | Smart card reader                     | ✗                                       |
| SSD interface                                | PCI Express 4.0                         | Windows Hello                         | ✓                                       |
| NVMe   | ✓                                       | Trusted Platform Module (TPM)         | ✓                                       |
| SSD form factor                              | M.2                                     | Trusted Platform Module (TPM) version | 2.0                                     |
| Optical drive type *                         | ✗                                       | Password protection                   | ✓                                       |
| Card reader integrated                       | ✗                                       | Password protection type              | BIOS, Power on, Supervisor, SSD         |
| Graphics                                     |   | Operational conditions                |   |
| Discrete graphics card model *               | Not available                           | Operating temperature (T-T)           | 5 - 35 °C                               |
| On-board graphics card *                     | ✓                                       | Storage temperature (T-T)             | 5 - 43 °C                               |
| On-board GPU manufacturer                    | Intel                                   | Operating relative humidity (H-H)     | 8 - 95%                                 |
| Discrete graphics card *                     | ✗                                       | Storage relative humidity (H-H)       | 5 - 95%                                 |
| On-board graphics card family                | Intel Graphics                          | Maximum shipping altitude             | 3048 m                                  |
| On-board graphics card model *               | Intel Graphics                          | Certificates                          |   |
| Audio  |   | Compliance certificates               | RoHS                                    |
| Audio chip                                   | Realtek ALC3306                         | Certification                         | MIL-STD-810H military test passed       |
| Audio system                                 | Dolby Atmos                             | Sustainability                        |   |
| Number of built-in speakers                  | 2                                       | Sustainability compliance             | ✓                                       |
| Speaker power                                | 2 W                                     | Sustainability certificates           | TCO, ENERGY STAR, EPEAT Gold, ErP       |
| Built-in microphone                          | ✓                                       |                                       |   |
| Number of microphones                        | 2                                       |                                       |   |

| Weight & dimensions   |          |
|-----------------------|----------|
| Width                 | 312.8 mm |
| Depth                 | 214.8 mm |
| Height                | 15 mm    |
| Weight *              | 1.09 kg  |
| Packaging content     |          |
| AC adapter included * | ✓        |



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