

**Lenovo  
ThinkPad X9-15  
Gen 1 Copilot+  
PC Intel Core  
Ultra 5 228V  
Laptop 38.9 cm  
(15.3) 2.8K 32  
GB LPDDR5x-  
SDRAM 512 GB  
SSD Wi-Fi 7  
(802.11be)  
Windows 11 Pro  
English Grey**



Model: 21Q60005PB

Manufacturer: LENOVO

EAN: 198155877315

Product Code: 299511

**R38,078**

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Bundled software: Intel Connectivity Performance Suite + Lenovo AI Now | Certification: ENERGY STAR 8.0 EPEAT Gold Registered ErP Lot 6/26 RoHS compliant TCO Certified 10.0 Intel Evo Platform Eyesafe Certified 2.0 TÜV Rheinland Eye Comfort Certification (5-star) MIL-STD-810H military test passed | GPU performance up to: 53 TOPs | Copilot+ PC: Yes | USB Type-C charging port: Yes | Weight: 1.4 kg | Bluetooth: Yes | Display diagonal: 38.9 cm (15.3") | Discrete graphics card model: Not available | Processor threads: 8 | Product colour: Grey | Operating relative humidity (H-H): 8 - 95% | Processor cache: 8 MB | Motherboard chipset: Intel SoC | Processor family: Intel Core Ultra 5 | AC adapter input voltage: 100 - 240 V | Display resolution: 2880 x 1800 pixels | LED backlight: Yes | Internal memory: 32 GB | Internal memory type: LPDDR5x-SDRAM | Processor cache type: Smart Cache | Built-in microphone: Yes | Native aspect ratio: 16:10 | Maximum internal memory: 32 GB | HD type: 2.8K | AC adapter included: Yes | Memory clock speed: 8533 MHz | Storage temperature (T-T): 5 - 43 °C | Audio chip: Cirrus Logic CS42L43 | Trusted Platform Module (TPM): Yes | Processor model: 228V | Processor boost frequency: 4.5 GHz | Total storage capacity: 512 GB | Storage relative humidity (H-H): 5 - 95% | On-board graphics card model: Intel Arc Graphics 130V | Antenna type: 2x2 | Memory form factor: On-board | Audio system: Dolby Atmos | Processor cores: 8 | Operating temperature (T-T): 5 - 35 °C | Combo headphone/mic port: Yes | Front camera: Yes | Optical drive type: No | Colour gamut: 100% | Front camera resolution (numeric): 8 MP | Infrared (IR) camera: Yes | Trusted Platform Module (TPM) version: 2.0 | USB Sleep-and-Charge: Yes | NPU performance up to: 40 TOPs | Speaker power: 2 W | Maximum refresh rate: 120 Hz | WWAN: Not installed | WLAN controller model: Intel Wi-Fi 7 BE201 | Neural processor unit (NPU): Intel AI Boost | Copilot key: Yes | M.2 SSD size: 2242 (22 x 42 mm) | Total processor performance up to: 97 TOPs | Fingerprint reader: Yes | Bluetooth version: 5.4 | Storage media: SSD | Mobile network connection: No | Intel® vPro™ Platform Eligibility: Yes | Low Power Efficient-cores: 4 | Total SSDs capacity: 512 GB | Spill-resistant keyboard: Yes | Performance-core Max Turbo Frequency: 4.5 GHz | Performance cores: 4 | RGB colour space: DCI-P3 | USB Type-C DisplayPort Alternate Mode: Yes | Depth: 228.5 mm | Panel type: OLED | Processor manufacturer: Intel | AI software frameworks supported by NPU: WebNN | Low Power Efficient-core Max Turbo Frequency: 3.5 GHz | Windows Studio effects support: Yes | Microsoft Copilot: Yes | HDMI version: 2.1 | AI software frameworks supported by NPU: Windows ML | Pointing device: Touchpad | AI software frameworks supported by NPU: ONNX RT | Operating system architecture: 64-bit | Number of microphones: 2 | Thunderbolt 4 ports quantity: 2 | Windows Hello: Yes | Number of built-in speakers: 4 | Contrast ratio (typical): 100000:1 | AI software frameworks supported by NPU: OpenVINO | SSD capacity: 512 GB | Front camera HD type: Ultra HD | Battery technology: Lithium Polymer (LiPo) | Width: 339.6 mm | Low Power Efficient-core Base Frequency:

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2100 MHz | Anti-reflective coating: Yes | Height: 12.9 mm | Product type: Laptop | SSD form factor: M.2 | USB Power Delivery (USB PD): Yes | Memory channels: Dual-channel | High Dynamic Range (HDR) supported: Yes | NVMe: Yes | Operating system language: Polish | Operating system language: English | On-board graphics card family: Intel Arc Graphics | SSD interface: PCI Express 4.0 | Intel® Thunderbolt 4: Yes | Ethernet LAN: No | Discrete graphics card: No | SSD memory type: TLC | Touchscreen: No | USB Sleep-and-Charge ports: 1 | Password protection: Yes | Maximum turbo power: 37 W | Operating system installed: Windows 11 Pro | Near Field Communication (NFC): No | AI software frameworks supported by NPU: DirectML | Processor base power: 17 W | Numeric keypad: No | Wi-Fi standards: Wi-Fi 7 (802.11be) | Smart card reader: No | On-board GPU manufacturer: Intel | USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity: 1 | HDMI ports quantity: 1 | On-board graphics card: Yes | High Dynamic Range (HDR) technology: DisplayHDR True Black 600 | Housing material: Aluminium | Processor generation: Intel Core Ultra (Series 2) | AC adapter power: 65 W | Performance-core base frequency: 2.1 GHz | Keyboard backlit: Yes | Display brightness: 500 cd/m<sup>2</sup> | Top Wi-Fi standard: Wi-Fi 7 (802.11be) | Card reader integrated: No | Battery capacity: 80 Wh | High Dynamic Range (HDR) technology: Dolby Vision | Number of SSDs installed: 1 | AC adapter frequency: 50 - 60 Hz | Compliance certificates: RoHS | WLAN controller manufacturer: Intel | Maximum shipping altitude: 3048 m | Sparsity support: Yes

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