



LG Gram Pro 16Z90TP-G.AA78A1 laptop Intel Core Ultra 7 225H 40.6 cm (16") 2.5K 16 GB LPDDR5x-SDRAM 1 TB SSD Wi-Fi 7 (802.11be) Windows 11 Home Black

Brand : LG

Product family: Gram Pro

Product code: 16Z90TP-
G.AA78A1

Product name : 16Z90TP-
G.AA78A1

- 16" 16:10 WQXGA (2560x1600) IPS LCD display
- AI assistant Copilot in Windows 11
- AI optimized Intel® Arrow Lake H Processor / LPDDR5x RAM / NVMe Gen4 SSD
- Hybrid gram AI / LG gram Link
- 1,239g Lightweight / 77Wh smart battery
- 31-144Hz Variable Refresh Rate (VRR)

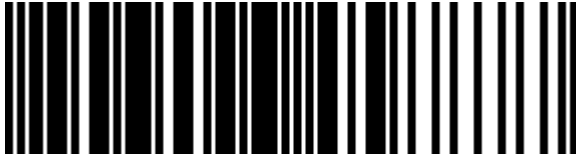
LG gram Pro AI 16" 2.5K (2560 x 1600), 400nit, 16GB RAM, 1 TB NVMe Gen4, Intel® Arrow Lake Processor Ultra7 255H, gram AI, BT 5.4, Wi-Fi-7, 77 Wh Li-Ion, Obsidian Black, Windows 11 Home
LG Gram Pro 16Z90TP-G.AA78A1. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 7, Processor model: 225H, Processor frequency: 5.1 GHz. Display diagonal: 40.6 cm (16"), HD type: 2.5K, Display resolution: 2560 x 1600 pixels. Internal memory: 16 GB, Internal memory type: LPDDR5x-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel Arc 140T. Operating system installed: Windows 11 Home. Product colour: Black



| Design | | Graphics | |
|---------------------------|-----------------------------|---|---------------------|
| Colour name | Obsidian Black | On-board graphics card 6K support | ✓ |
| Product type * | Laptop | On-board graphics card 8K support | ✓ |
| Product colour * | Black | Graphics card Open GL support | ✓ |
| Form factor * | Clamshell | Audio | |
| Housing material | Magnesium | Audio system | Dolby Atmos |
| Market positioning | High performance | Number of built-in speakers | 2 |
| Introduction year | 2025 | Speaker power | 3 W |
| Country of origin | China | Built-in microphone | ✓ |
| Original brand name | LG | Number of microphones | 2 |
| Display | | Camera | |
| Display diagonal * | 40.6 cm (16") | Front camera | ✓ |
| Display resolution * | 2560 x 1600 pixels | Front camera resolution | 1920 x 1080 pixels |
| Touchscreen * | ✗ | Front camera HD type | Full HD |
| HD type | 2.5K | Infrared (IR) camera | ✓ |
| Panel type | IPS-Pro | Network | |
| Native aspect ratio | 16:10 | Top Wi-Fi standard * | Wi-Fi 7 (802.11be) |
| Display surface | Matt | Wi-Fi standards | Wi-Fi 7 (802.11be) |
| Anti-glare screen | ✓ | Mobile network connection * | ✗ |
| Display brightness | 400 cd/m² | Antenna type | 2x2 |
| Display diagonal (metric) | 40.6 cm | WLAN controller model | Intel Wi-Fi 7 BE201 |
| RGB colour space | DCI-P3 | WLAN controller manufacturer | Intel |
| Colour gamut | 99% | Bluetooth | ✓ |
| Maximum refresh rate | 144 Hz | Bluetooth version | 5.4 |
| Contrast ratio (typical) | 1500:1 | Ports & interfaces | |
| Processor | | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 2 |
| Processor manufacturer * | Intel | USB4 Gen 3x2 ports quantity | 2 |
| Processor family * | Intel Core Ultra 7 | HDMI ports quantity * | 1 |
| Processor generation | Intel Core Ultra (Series 2) | HDMI version | 2.1 |
| Processor model * | 225H | Thunderbolt 4 ports quantity | 2 |
| Processor cores | 16 | | |
| Processor threads | 16 | | |
| Processor boost frequency | 5.1 GHz | | |

| Processor | | Ports & interfaces | |
|--|--|--|--|
| Processor frequency * | 5.1 GHz | Intel® Thunderbolt 4 | ✓ |
| Performance cores | 6 | Headphone outputs | 1 |
| Efficient cores | 8 | Microphone in | ✓ |
| Low Power Efficient-cores | 2 | Combo headphone/mic port | ✓ |
| Performance-core Max Turbo Frequency | 5.1 GHz | USB Type-C DisplayPort Alternate Mode | ✓ |
| Efficient-core Max Turbo Frequency | 4.4 GHz | Keyboard | |
| Low Power Efficient-core Max Turbo Frequency | 2.5 GHz | Pointing device | Touchpad |
| Performance-core base frequency | 2 GHz | Numeric keypad * | ✓ |
| Efficient-core base frequency | 1.5 GHz | Keyboard backlit | ✓ |
| Low Power Efficient-core Base Frequency | 700 MHz | Full-size keyboard | ✓ |
| Processor cache | 24 MB | Keyboard number of keys | 98 |
| Processor cache type | Smart Cache | Keyboard layout | QWERTY |
| Processor base power | 28 W | Copilot key | ✓ |
| Maximum turbo power | 115 W | Software | |
| Neural processor unit (NPU) | | Operating system architecture | 64-bit |
| Neural processor unit (NPU) | Intel AI Boost | Pre-installed software | gram Chat, LG Smart Assistant, LG gram Link, LG Security Guard, LG Lively Theme, LG Glance by Mirametrix®, Dolby Atmos, Intel® Connectivity Performance Suite, LG xboom buds |
| Sparsity support | ✓ | | |
| Windows Studio effects support | ✓ | Trial software | McAfee Live Safe (30 Days Trial), Microsoft 365 (30 Days Trial) |
| AI datatype support on NPU | Int8 | Operating system installed * | Windows 11 Home |
| AI software frameworks supported by NPU | DirectML, ONNX RT, OpenVINO, WebNN, Windows ML | Microsoft Copilot | ✓ |
| Total processor performance up to | 96 TOPs | Processor special features | |
| NPU performance up to | 13 TOPs | Video decode engine | ✓ |
| GPU performance up to | 74 TOPs | Video encode engine | ✓ |
| Memory | | Brand-specific features | |
| Internal memory * | 16 GB | Brand specific technologies | Intelligent Privacy, Wide color (P3) |
| Internal memory type | LPDDR5x-SDRAM | Battery | |
| Memory clock speed | 8400 MHz | Battery technology | Lithium-Ion (Li-Ion) |
| Memory channels | Dual-channel | Battery capacity * | 77 Wh |
| Storage | | Power | |
| Total storage capacity * | 1 TB | AC adapter power | 65 W |
| Storage media * | SSD | USB Type-C charging port * | ✓ |
| Total SSDs capacity | 1 TB | USB Type-C required charging power (max) * | 65 W |
| Number of SSDs installed | 1 | USB Power Delivery (USB PD) | ✓ |
| SSD capacity | 1 TB | Security | |
| SSD interface | PCI Express 4.0 | Cable lock slot | ✓ |
| NVMe | ✓ | Cable lock slot type | Kensington |
| SSD form factor | M.2 | Face recognition | ✓ |
| Optical drive type * | ✗ | Windows Hello | ✓ |
| Graphics | | Certificates | |
| Discrete graphics card model * | Not available | Certification | MIL-STD-810H |
| On-board graphics card * | ✓ | Weight & dimensions | |
| On-board GPU manufacturer | Intel | Width | 357.7 mm |
| Discrete graphics card * | ✗ | Depth | 251.6 mm |
| On-board graphics card family | Intel Arc Graphics | Height (front) | 1.24 cm |
| On-board graphics card model * | Intel Arc 140T | Height (rear) | 1.28 cm |
| On-board graphics card 4K support | ✓ | Weight * | 1.24 kg |
| | | Packaging data | |
| | | Package width | 475 mm |

| Packaging data | |
|-----------------------|-----------|
| Package depth | 290 mm |
| Package height | 60 mm |
| Package weight | 2.64 kg |
| Packaging content | |
| AC adapter included * | ✓ |
| Other features | |
| Warranty period | 1 year(s) |



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