



LG Gram AI 16Z90T-G.AA78A1

Brand : LG

Product family: Gram

Product code: 16Z90T-G.AA78A1

Product name : LG gram AI 16Z90T-G.AA78A1

- 16" 16:10 WQXGA (2560x1600) Anti-glare IPS display
- AI assistant Copilot in Windows 11
- AI optimised Intel® Core™ Ultra Processor / 16GB LPDDR5x RAM / 1TB NVMe Gen4 SSD
- gram Hybrid AI / LG gram Link
- 1,199g Lightweight / 77Wh smart battery
- Dolby Atmos

LG gram AI 16Z90T 16 inch Ultra-Lightweight Laptop, Intel Core Ultra 7 255H Processor (Arrow Lake), 16GB RAM, 1TB SSD, gram Hybrid AI, Copilot, Windows 11 Home (Obsidian Black)

LG Gram AI 16Z90T-G.AA78A1. Product type: Ultraportable, Form factor: Clamshell. Processor family: Intel Core Ultra 7, Processor model: 255H. 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. Weight: 1.12 kg

Design		Graphics	
Colour name	Obsidian Black	On-board graphics card 6K support ✓	
Product type *	Ultraportable		
Product colour *	Black		
Form factor *	Clamshell		
Housing material	Magnesium		
Market positioning	Premium		
Country of origin	China		
Original brand name	LG gram		
Display		Audio	
Display diagonal *	40.6 cm (16")	Audio system	Dolby Atmos
Display resolution *	2560 x 1600 pixels	Number of built-in speakers	2
Touchscreen *	✗	Speaker power	2 W
HD type	2.5K	Built-in subwoofer	✓
Panel type	IPS-Pro	Built-in microphone	✓
LED backlight	✓	Number of microphones	2
Native aspect ratio	16:10		
Display surface	Matt		
Anti-glare screen	✓		
Screen shape	Flat		
Display brightness	320 cd/m²		
RGB colour space	DCI-P3		
Colour gamut	99%		
Maximum refresh rate	60 Hz		
Contrast ratio (typical)	1500:1		
DCI-P3 coverage	99%		
Processor		Camera	
Processor manufacturer *	Intel	Front camera	✓
Processor family *	Intel Core Ultra 7	Front camera resolution	1920 x 1080 pixels
Processor model *	255H	Front camera HD type	Full HD
Processor cores	16	Infrared (IR) camera	✓
Processor threads	16		
Processor boost frequency	4.8 GHz		
Performance cores	6		
Efficient cores	8		
Low Power Efficient-cores	2		
		Network	
		Wi-Fi	✓
		Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
		Wi-Fi standards	Wi-Fi 7 (802.11be)
		Mobile network connection *	✗
		Antenna type	2x2
		WLAN controller model	Intel Wi-Fi 7 BE201
		WLAN controller manufacturer	Intel
		Bluetooth	✓
		Bluetooth version	5.3
		Ports & interfaces	
		USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
		Thunderbolt technology	✓
		Thunderbolt version	4
		USB4 Gen 3x2 ports quantity	2
		HDMI ports quantity *	1
		HDMI version	2.1
		Thunderbolt 4 ports quantity	2
		Headphone outputs	1
		Microphone in	✓

Processor		Ports & interfaces	
Performance-core Max Turbo Frequency	5.1 GHz	Headphone connectivity	3.5mm / Bluetooth
Efficient-core Max Turbo Frequency	4.4 GHz	USB Type-C DisplayPort Alternate Mode	✓
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Keyboard	
Performance-core base frequency	2 GHz	Pointing device	Touchpad
Efficient-core base frequency	1.5 GHz	Numeric keypad *	✓
Low Power Efficient-core Base Frequency	700 MHz	Keyboard backlit	✓
Processor cache	24 MB	Keyboard backlit colour	White
Processor cache type	Smart Cache	Full-size keyboard	✓
Processor codename	Arrow Lake	Keyboard number of keys	98
Neural processor unit (NPU)		Windows keys	✓
Neural processor unit (NPU)	Intel AI Boost	Keyboard layout	QWERTY
Sparsity support	✓	Software	
Windows Studio effects support	✓	Operating system architecture	64-bit
AI datatype support on NPU	Int8	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
AI software frameworks supported by NPU	ONNX RT, OpenVINO, WebNN, Windows ML		
Total processor performance up to	96 TOPs	Trial software	McAfee Live Safe (30 Days Trial), Microsoft 365 (30 Days Trial)
NPU performance up to	13 TOPs		
GPU performance up to	74 TOPs	Operating system installed *	Windows 11 Home
Memory		Battery	
Internal memory *	16 GB	Battery technology	Lithium-Ion (Li-Ion)
Internal memory type	LPDDR5x-SDRAM	Battery capacity *	77 Wh
Memory clock speed	7467 MHz	Power	
Memory form factor	On-board	USB Power Delivery (USB PD)	✓
Maximum internal memory *	16 GB	Security	
Memory channels	Dual-channel	Cable lock slot	✓
Storage		Cable lock slot type	Kensington
Total storage capacity *	1 TB	Fingerprint reader	✓
Storage media *	SSD	Security management description	LG Security
Total SSDs capacity	1 TB	Operational conditions	
Number of SSDs installed	1	Drop proof	122 cm
SSD capacity	1 TB	Certificates	
SSD interface	M.2, PCI Express	MIL-STD-810G compliant	✓
SSD form factor	M.2	Adapting card types (test_feature)	Compliant with the following methods for MIL-STD-810H: Method 500.6 Low Pressure (Altitude) (Procedure I - Storage and Method and Procedure II - Operation); Method 501.7 High Temperature (Procedure I - Storage and Procedure II - Operation); Method 502.7 Low Temperature (Procedure I - Storage and Procedure II - Operation); Method 509.7 - Salt Fog Test; Method 510.7 - Dust; Method 514.8 - Vibration; Method 516.8 Shock (Procedure I - Functional and Procedure IV - Transit Drop).
Optical drive type *	✗		
Graphics		Certification	MIL-STD-810H
On-board graphics card *	✓	Weight & dimensions	
Discrete graphics card *	✗	Width	355.1 mm
On-board graphics card family	Intel Arc Graphics	Depth	242.3 mm
On-board graphics card model *	Intel Arc 140T	Height (front)	1.57 cm
On-board graphics card cores	8	Height (rear)	1.68 cm
On-board graphics card 4K support	✓	Weight *	1.12 kg

Packaging data	
Package width	475 mm
Package depth	290 mm
Package height	60 mm
Package weight	2.2 kg
Packaging content	
AC adapter included *	✗
Manual	✗
Warranty card	✓
Power cord included	✓

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