



LG Gram Pro 16Z90TP-K.AA78A1 laptop Intel Core Ultra 7 225H 40.6 cm (16") WQXGA+ 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-K.AA78A1

Product name : 16Z90TP-K.AA78A1

- 16" 16:10 WQXGA+ (2880x1800) OLED display
- AI assistant Copilot in Windows 11
- AI optimised Intel® Core™ Ultra Processor / LPDDR5x RAM / NVMe Gen4 SSD
- gram Hybrid AI / LG gram Link
- 1,199g Lightweight / 77Wh smart battery
- 48-120Hz Variable Refresh Rate (VRR)

16" OLED WQXGA+ (2880x1800), 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-K.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: WQXGA+, Display resolution: 2880 x 1800 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 *	2880 x 1800 pixels	Front camera resolution	1920 x 1080 pixels
Touchscreen *	✗	Front camera HD type	Full HD
HD type	WQXGA+	Infrared (IR) camera	✓
Panel type	OLED	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	Intel® Thunderbolt 4	✓
Processor threads	16	Headphone outputs	1
Processor boost frequency	5.1 GHz		
Processor frequency *	5.1 GHz		
Performance cores	6		

Processor		Ports & interfaces	
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		
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, WebNN, Windows ML	Operating system installed *	Windows 11 Home
Total processor performance up to	96 TOPs	Microsoft Copilot	✓
NPU performance up to	13 TOPs	Processor special features	
GPU performance up to	74 TOPs	Video decode engine	✓
Memory		Video encode engine	✓
Internal memory *	16 GB	Brand-specific features	
Internal memory type	LPDDR5x-SDRAM	Brand specific technologies	Intelligent Privacy, Wide color (P3)
Memory clock speed	8400 MHz	Battery	
Memory channels	Dual-channel	Battery technology	Lithium-Ion (Li-Ion)
Storage		Battery capacity *	77 Wh
Total storage capacity *	1 TB	Power	
Storage media *	SSD	AC adapter power	65 W
Total SSDs capacity	1 TB	USB Type-C charging port *	✓
Number of SSDs installed	1	USB Type-C required charging power (max) *	65 W
SSD capacity	1 TB	USB Power Delivery (USB PD)	✓
SSD interface	PCI Express 4.0	Security	
NVMe	✓	Cable lock slot	✓
SSD form factor	M.2	Cable lock slot type	Kensington
Optical drive type *	✗	Face recognition	✓
Graphics		Windows Hello	✓
Discrete graphics card model *	Not available	Certificates	
On-board graphics card *	✓	Certification	MIL-STD-810H
On-board GPU manufacturer	Intel	Weight & dimensions	
Discrete graphics card *	✗	Width	357.7 mm
On-board graphics card family	Intel Arc Graphics	Depth	251.6 mm
On-board graphics card model *	Intel Arc 140T	Height (front)	1.24 cm
On-board graphics card 4K support	✓	Height (rear)	1.28 cm
		Weight *	1.2 kg
		Packaging data	
		Package width	475 mm
		Package depth	290 mm
		Package height	60 mm

Packaging data	
Package weight	2.35 kg
Packaging content	
AC adapter included *	✓
Other features	
Warranty period	1 year(s)



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