



LG Gram Pro AI 16Z90TS-G.AU79A1 laptop Intel Core Ultra 7 256V 40.6 cm (16") 2.5K 16 GB LPDDR5x-SDRAM 1 TB SSD Wi-Fi 7 (802.11be) Windows 11 Home, Metal Grey

Brand : LG

Product family: Gram Pro

Product code: 16Z90TS-
G.AU79A1

Product name : LG gram Pro AI
16Z90TS-G.AU79A1 laptop Intel
Core Ultra 7 256V 40.6 cm (16")
2.5K 16 GB LPDDR5x-SDRAM 1
TB SSD Wi-Fi 7 (802.11be)
Windows 11 Home, Metal Grey

- 16" 16:10 WQXGA (2560x1600) IPS display
- Windows 11 / Copilot+ PC
- AI optimized Intel® Core™ Ultra Processor / 47 TOPS NPU
- gram Hybrid AI / LG gram Link
- 1,239g Lightweight / 77Wh smart battery
- 31-144Hz Variable Refresh Rate

16" WQXGA (2560 x 1600), 31~144Hz VRR, 16GB 1TB, 1500:1, IPS, Wi-Fi-7, BT5.4, 77 Wh Li-Ion,
Windows 11 Home

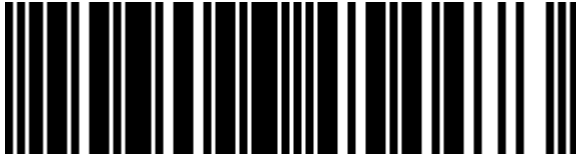
LG Gram Pro AI 16Z90TS-G.AU79A1 laptop Intel Core Ultra 7 256V 40.6 cm (16") 2.5K 16 GB LPDDR5x-
SDRAM 1 TB SSD Wi-Fi 7 (802.11be) Windows 11 Home, Metal Grey. Product type: Laptop, Form factor:
Clamshell. Processor family: Intel Core Ultra 7, Processor model: 256V, Processor frequency: 4.8 GHz.
Display 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 Graphics 140V. Operating system installed: Windows 11 Home.
Product colour: Grey



Design		Graphics	
Colour name	Metal Grey	On-board graphics card 6K support	✓
Product type *	Laptop	On-board graphics card 8K support	✓
Product colour *	Grey	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)		
Processor model *	256V		

Processor		Ports & interfaces	
Processor cores	8	HDMI version	2.1
Processor threads	8	Thunderbolt 4 ports quantity	2
Processor boost frequency	4.8 GHz	Intel® Thunderbolt 4	✓
Processor frequency *	4.8 GHz	Combo headphone/mic port	✓
Performance cores	4	USB Type-C DisplayPort Alternate Mode	✓
Low Power Efficient-cores	4		
Performance-core Max Turbo Frequency	4.8 GHz		
Low Power Efficient-core Max Turbo Frequency	3.7 GHz		
Performance-core base frequency	2.2 GHz		
Low Power Efficient-core Base Frequency	2.2 MHz		
Processor cache	12 MB		
Processor cache type	Smart Cache		
Processor base power	17 W		
Maximum turbo power	37 W		
Neural processor unit (NPU)		Keyboard	
Neural processor unit (NPU)	Intel AI Boost	Pointing device	Touchpad
Sparsity support	✓	Numeric keypad *	✓
Windows Studio effects support	✓	Keyboard backlit	✓
AI datatype support on NPU	Int8	Full-size keyboard	✓
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, WebNN, Windows ML	Keyboard number of keys	98
Total processor performance up to	115 TOPs	Keyboard layout	QWERTY
NPU performance up to	47 TOPs	Copilot key	✓
GPU performance up to	64 TOPs		
Memory		Software	
Internal memory *	16 GB	Operating system architecture	64-bit
Internal memory type	LPDDR5x-SDRAM		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
Memory clock speed	8533 MHz	Pre-installed software	McAfee Live Safe (30 Days Trial), Microsoft 365 (30 Days Trial)
Memory form factor	On-board	Trial software	
Maximum internal memory *	16 GB	Operating system installed *	Windows 11 Home
Memory channels	Dual-channel	Microsoft Copilot	✓
		Copilot+ PC	✓
Storage		Processor special features	
Total storage capacity *	1 TB	Video decode engine	✓
Storage media *	SSD	Video encode engine	✓
Total SSDs capacity	1 TB		
Number of SSDs installed	1		
SSD capacity	1 TB		
SSD interface	PCI Express 4.0		
NVMe	✓		
SSD form factor	M.2		
Optical drive type *	✗		
Graphics		Brand-specific features	
Discrete graphics card model *	Not available	Brand specific technologies	Intelligent Privacy, Wide color (P3)
On-board graphics card *	✓		
On-board GPU manufacturer	Intel		
Discrete graphics card *	✗		
On-board graphics card family	Intel Arc Graphics		
On-board graphics card model *	Intel Arc Graphics 140V		
On-board graphics card cores	8		
On-board graphics card 4K support	✓		
		Battery	
		Battery technology	Lithium-Ion (Li-Ion)
		Battery capacity *	77 Wh
		Power	
		AC adapter power	65 W
		USB Type-C charging port *	✓
		USB Type-C required charging power (max) *	65 W
		USB Power Delivery (USB PD)	✓
		Security	
		Cable lock slot	✓
		Cable lock slot type	Kensington
		Face recognition	✓
		Windows Hello	✓
		Certificates	
		Certification	MIL-STD-810H
		Weight & dimensions	
		Width	357.7 mm
		Depth	251.6 mm
		Height (front)	1.24 cm
		Height (rear)	1.28 cm
		Weight *	1.24 kg

Packaging data	
Package width	475 mm
Package depth	290 mm
Package height	60 mm
Package weight	2.35 kg
Packaging content	
AC adapter included *	✓
Other features	
Warranty period	1 year(s)



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