



LG Gram Pro AI 2-in-1 16T90TP-G.AA78A1

Brand : LG

Product family: Gram Pro

Product code: 16T90TP-G.AA78A1

Product name : LG gram Pro AI 2-in-1 16T90TP-G.AA78A1

- 16" 16:10 WQXGA (2560x1600) Anti-glare IPS touch display / Stylus pen
- AI assistant Copilot in Windows 11
- AI optimized Intel® Core™ Ultra Processor / 16GB LPDDR5x RAM / 1TB NVMe Gen4 SSD
- gram Hybrid AI / LG gram Link
- 1,399g Ultra-light & superslim / 77Wh smart battery
- 31-144Hz Variable Refresh Rate (VRR)

LG gram Pro AI 2-in-1 16T90TP 16" WQXGA 16:10, Ultra-Lightweight Laptop, Intel Core Ultra7 255H

Processor, 16GB RAM, 1TB SSD, gram Hybrid AI, Copilot, Windows 11 Home (Obsidian Black)

LG Gram Pro AI 2-in-1 16T90TP-G.AA78A1. Product type: Hybrid (2-in-1), Form factor: Convertible (Folder). Processor family: Intel Core Ultra 7, Processor model: 255H. Display diagonal: 40.6 cm (16"), HD type: WQXGA, Display resolution: 2560 x 1600 pixels, Touchscreen. 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



LG gram Pro 2in1

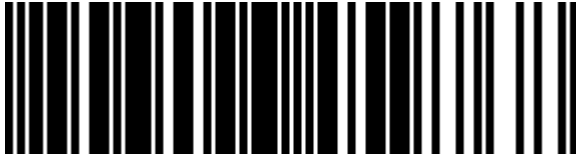


Hybrid AI gram AI	Windows 11 Copilot OS	Intel® Core™ Ultra 7 255H Processor CPU
1,399g 12.4mm Lightweight	16" 2.5K Anti-glare Touchscreen IPS Display	DCH-P3 99% (Typ.) Colour gamut Up to 144Hz VRR

Design		Audio	
Colour name	Obsidian Black	Audio system	Dolby Atmos
Product type *	Hybrid (2-in-1)	Spatial audio	✓
Product colour *	Black	Number of built-in speakers	2
Form factor *	Convertible (Folder)	Speaker power	3 W
Housing material	Magnesium	Built-in subwoofer	✓
Market positioning	Premium	Built-in microphone	✓
Introduction year	2025	Number of microphones	2
Country of origin	China	Camera	
Original brand name	LG	Front camera	✓
Stylus pen support	✓	Front camera resolution	1920 x 1080 pixels
Display		Front camera HD type	Full HD
Display diagonal *	40.6 cm (16")	Infrared (IR) camera	✓
Display resolution *	2560 x 1600 pixels	Network	
Touchscreen *	✓	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
HD type	WQXGA	Wi-Fi standards	Wi-Fi 7 (802.11be)
Panel type	IPS-Pro	Mobile network connection *	✗
Native aspect ratio	16:10	Antenna type	2x2
Display surface	Matt	WLAN controller model	Intel Wi-Fi 7 BE200
Anti-glare screen	✓	WLAN controller manufacturer	Intel
Screen shape	Flat	Bluetooth	✓
Display glass type	Gorilla Glass	Bluetooth version	5.4
Display brightness	400 cd/m²	Ports & interfaces	
Display diagonal (metric)	40.6 cm	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
RGB colour space	DCI-P3	Thunderbolt technology	✓
Colour gamut	99%	Thunderbolt version	4
Maximum refresh rate	144 Hz	USB4 Gen 3x2 ports quantity	2
Contrast ratio (typical)	1500:1		

Processor		Ports & interfaces	
Processor manufacturer *	Intel	HDMI ports quantity *	1
Processor family *	Intel Core Ultra 7	HDMI version	2.1
Processor generation	Intel Core Ultra (Series 2)	Thunderbolt 4 ports quantity	2
Processor model *	255H	Intel® Thunderbolt 4	✓
Processor cores	16	Headphone outputs	1
Processor threads	16	Combo headphone/mic port	✓
Processor boost frequency	5.1 GHz	Headphone connectivity	3.5mm / Bluetooth
Performance cores	6	USB Type-C DisplayPort Alternate Mode	✓
Efficient cores	8	USB Type-C functions	Charging, Data transfer, Video output
Low Power Efficient-cores	2		
Performance-core Max Turbo Frequency	5.1 GHz		
Efficient-core Max Turbo Frequency	4.4 GHz		
Low Power Efficient-core Max Turbo Frequency	2.5 GHz		
Performance-core base frequency	2 GHz		
Efficient-core base frequency	1.5 GHz		
Low Power Efficient-core Base Frequency	700 MHz		
Processor cache	24 MB		
Processor cache type	Smart Cache		
Processor codename	Arrow Lake		
Processor base power	28 W		
Maximum turbo power	115 W		
Neural processor unit (NPU)		Performance	
Neural processor unit (NPU)	Intel AI Boost	Text-to-speech technology	✓
Sparsity support	✓		
Windows Studio effects support	✓		
AI datatype support on NPU	Int8		
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML		
Total processor performance up to	96 TOPs		
NPU performance up to	13 TOPs		
GPU performance up to	74 TOPs		
Memory		Keyboard	
Internal memory *	16 GB	Pointing device	Touchpad + Stylus
Internal memory type	LPDDR5x-SDRAM	Numeric keypad *	✓
Memory clock speed	8400 MHz	Keyboard backlit	✓
Memory form factor	On-board	Full-size keyboard	✓
Maximum internal memory *	16 GB	Keyboard number of keys	98
Memory channels	Dual-channel	Windows keys	✓
		Keyboard layout	QWERTY
		Built-in touchpad	✓
Storage		Software	
Total storage capacity *	1 TB	Operating system architecture	64-bit
Storage media *	SSD		gram Chat, LG Smart Assistant, LG gram Link, LG Security Guard, LG Lively Theme, LG Glance by Mirametrix®, Dolby Atmos, Intel® Connectivity Performance Suite, Bamboo Paper, LG xboom buds
Total SSDs capacity	1 TB	Pre-installed software	McAfee Live Safe (30 Days Trial), Microsoft 365 (30 Days Trial)
Number of SSDs installed	1	Trial software	
SSD capacity	1 TB	Operating system installed *	Windows 11 Home
SSD interface	PCI Express 4.0	Windows Ink	✓
NVMe	✓	Microsoft Copilot	✓
SSD form factor	M.2		
Optical drive type *	✗		
Graphics		Battery	
Discrete graphics card model *	Not available	Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card *	✓	Battery capacity *	77 Wh
On-board GPU manufacturer	Intel	Battery life (max)	22 h
Discrete graphics card *	✗	Continuous video playback time	12 h
On-board graphics card family	Intel Arc Graphics		
On-board graphics card model *	Intel Arc 140T		
On-board graphics card cores	8		
		Power	
		Battery life power on	21 h
		AC adapter power	65 W
		USB Type-C charging port *	✓
		USB Type-C required charging power (min) *	45 W
		USB Type-C required charging power (max) *	65 W
		USB Power Delivery (USB PD)	✓
		Security	
		Face recognition	✓
		Windows Hello	✓
		Security management description	LG Security
		Operational conditions	
		Drop proof	122 cm
		Certificates	
		Certification	MIL-STD-810H

Graphics		Weight & dimensions	
On-board graphics card 4K support	✓	Width	357.3 mm
On-board graphics card 6K support	✓	Depth	253.8 mm
Graphics card Open GL support	✓	Height (front)	1.24 cm
Ray tracing acceleration	✓	Height (rear)	1.29 cm
		Weight *	1.4 kg
		Packaging data	
		Package width	477 mm
		Package depth	298 mm
		Package height	62 mm
		Package weight	2.2 kg
		Packaging content	
		AC adapter included *	✓
		Stylus pen	✓
		Stylus pen type	Active
		Manual	✓
		Warranty card	✓
		Power cord included	✓
		Other features	
		Multi-touch	✓
		Noise-canceling	✓
		Warranty period	1 year(s)



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