

Availability	June 2025
Brand	Lexar
Product Name Full	Lexar® ARES PRO M.2 2280 PCIe 5.0 NVMe SSD
Product Name Short	ARES PRO PCIe 5.0 SSD
Product Name e-Commerce	Lexar ARES PRO Gen5 Internal SSD, 4TB, Up to 14000/11000MB/s Read/Write, Thermal Defender Technology, Best for AI Applications, Gaming, and Video Editing Lexar ARES PRO Gen5 Internal SSD, 2TB, Up to 14000/10000MB/s Read/Write, Thermal Defender Technology, Best for AI Applications, Gaming, and Video Editing Lexar ARES PRO Gen5 Internal SSD, 1TB, Up to 14000/7500MB/s Read/Write, Thermal Defender Technology, Best for AI Applications, Gaming, and Video Editing
Product Line	SSD
Marketing Text 25-Word Description (<750 characters)	Stunning PCIe performance that keeps your game blazing, your high-res renders flawless, and your AI projects swiftly processing.
Marketing Text 50-Word Description (<750 characters)	Built with PCIe 5.0 performance that delivers read speeds up to 14,000MB/s ¹ the ARES PRO M.2 2280 PCIe 5.0 NVMe SSD is 2x faster than a typical Gen 4 SSD. ² The drive includes Thermal Defender technology to keep the drive running smoothly and efficiently, and SLC Dynamic Cache improves system responsiveness for a better experience whether you're blazing through a AAA game, refining high-res renders, or deftly processing your most comprehensive AI projects.
Bullet Feature 1	Cutting-Edge Performance PCIe 5.0 interface delivers electrifying sequential read speeds up to 14,000MB/s ¹ – 2x faster than a typical Gen 4 SSD ² . This exceptional performance is perfect for serious gamers and professional rendering.
Bullet Feature 2	Thermal Defender Technology Better power consumption management, an 8-channel controller, graphite heat dissipation decals, plus Thermal Defender technology combine to ensure smoother and more efficient performance.
Bullet Feature 3	Slash Wait Times SLC Dynamic Cache delivers random read/write speeds up to 2000/1500K IOPS ¹ to greatly reduce wait times, enhance data transfer speeds, and improve system responsiveness.
Bullet Feature 4	Made to Last This drive has excellent reliability with rated capacity of up to 3000TBW (4TB drive), offering a better warranty than competing products.
Bullet Feature 5	Works with Microsoft DirectStorage³ Significantly boost game loads, minimize delays, conserve CPU power, and elevate the overall gaming experience.
Bullet Feature 6	Manage your Drive Like a Pro Use the Lexar DiskMaster SSD Management tool to perform firmware updates, manage the drive and its data, and monitor drive health.
Footnote(s)/ Disclaimer(s)	¹ Speeds based on internal testing. Actual performance may vary. ² Compared to PCIe 4.0 SSDs. ³ This feature will only work if the computer meets the working requirements of DirectStorage and the game is compatible with DirectStorage. Lexar is not liable for any loss of data or images. Product appearance, performance, software offerings, and packaging may vary depending on ship date and available inventory. Actual usable memory capacity may vary. 1GB equals 1 billion bytes.
Warranty	Five-year limited warranty
Market Segment	Electronics, Computers & accessories, data storage, external solid state drives

Category	SSD
Sub Category	SSD, M.2 2280, PCIe Gen5x4, Lexar
Keywords for Search	SSD, 1TB SSD, 2TB SSD, 4TB SSD, PCIe 5.0 SSD, High performance SSD, next-gen SSD, sleek SSD, compact SSD, Microsoft DirectStorage SSD, content, data storage, content storage, high-speed SSD, storage, backup drive, rendering drive, gaming PC SSD

Specifications				
Form Factor	M.2 2280			
Interface	PCIe Gen5x4			
Capacities	1TB / 2TB / 4TB			
Speed	1TB: Sequential read speed up to 14000MB/s ¹ , sequential write speed up to 7500MB/s ¹ , random read up to 1600K IOPs, random write up to 1000K IOPs 2TB: Sequential read speed up to 14000MB/s ¹ , sequential write speed up to 10000MB/s ¹ , random read up to 2000K IOPs, random write up to 1400K IOPs 4TB: Sequential read speed up to 14000MB/s ¹ , sequential write speed up to 11000MB/s ¹ , random read up to 2000K IOPs, random write up to 1500K IOPs			
Operating Temperature	0°C ~ 70°C (32°F to 158°F)			
Storage Temperature	-40°C ~ 85°C (-40°F to 185°F)			
Shock	1500G, duration 0.5ms, Half Sine Wave			
Vibration	10-2000Hz, 1.5mm, 20G, 1 Oct/min, 30min/axis (X, Y, Z)			
Dimensions (L x W x H)	80 x 22 x 2.45mm / 3.15" x 0.87" x 0.10"			
TBW	1TB: 750TBW, 2TB: 1500TBW, 4TB: 3000TBW			
MTBF	1,500,000 Hours			
Ordering Information				
Single and/or Master Carton UPC (Global)	Part Number	Description	Single UPC	10-Pack UPC
	LNMAESP001T-RNNNG	Lexar Internal SSD ARES PRO PCIe G5x4 1TB, Amazon	4895217919025	14895217919022
	LNMAESP002T-RNNNG	Lexar Internal SSD ARES PRO PCIe G5x4 2TB, Amazon	4895217918769	14895217918766
	LNMAESP004T-RNNNG	Lexar Internal SSD ARES PRO PCIe G5x4 4TB, Amazon	4895217919032	14895217919039
Country and Region of Origin	Global SKU: China			
Harmonized Tariff Schedule	8523.51			
Compliance	CE, FCC, VCCI, RCM, CMA, WEEE, UKCA			

Weights and Dimensions		
Product		
Unit Weight	0.013 lbs	6 g
Unit Dimensions (L x W x H)	3.15" x 0.87" x 0.10"	80mm x 22mm x 2.45mm
Image		
Retail Box (Dual Package)		
Package Type	Retail Box	
Qty Per Package	1	
Shipping Weight	0.104 lbs	47.4 g
Package Dimensions L x W x D	6.496" x 4.133" x 0.590"	165mm x 105mm x 15 mm
Image		
Retail Box – Inner Pack		
Package Type	Inner Carton	
Retail Inner Pack Quantity	10	
Shipping Weight	1.344 lbs	0.61 kg
Package Dimensions L x W x D	7.086" x 6.496" x 4.921"	180mm x 165mm x 125mm
Retail Box – Master Pack		
Package Type	Master Carton	
Retail Master Pack Quantity	120	
Shipping Weight	17.73 lbs	8.04 kg
Package Dimensions L x W x D	20.078" x 14.763" x 10.826"	510mm x 375mm x 275mm