



Product Highlights:

- Blazing-fast PCIe 5.0 speeds of up to 12000MB/s read, 11000MB/s write¹ are nearly 2x faster than PCIe 4.0²
- Unique and potent heatsink features a heat-blasting fan plus bright RGB lighting
- DRAM-based with SLC dynamic cache to improve performance and reduce latency
- Supports Microsoft DirectStorage
- Compatible with Intel 13th and 14th generations and AMD Ryzen 7000 series CPUs
- Monitor drive health and optimize performance with the Lexar DiskMaster tool³

Capacities:

1TB
(up to 11500MB/s read, 9000MB/s write¹)

2TB
(up to 12000MB/s read, 11000MB/s write¹)

4TB
(up to 12000MB/s read, 11000MB/s write¹)



Full-throttle Performance, Maximized Cooling

With lightning-fast speeds up to 12000MB/s read, 11000MB/s write¹ and an RGB heatsink with a heat-blasting fan, the Lexar Professional NM1090 PCIe 5.0 SSD is designed for superior performance. The drive features SLC dynamic cache which improves performance and reduces latency, plus it supports Microsoft DirectStorage and is compatible with Intel 13 and 14 and AMD Ryzen 7000 series CPUs.

Twice as Fast as PCIe 4.0.² PCIe 5.0 speeds of up to 12,000MB/s read, 11,000MB/s write¹ deliver cutting-edge performance.

Exceptionally Cool Design. A unique and potent heatsink features a heat-blasting fan plus programmable RGB lighting for the ultimate in cool.

Built to Perform. The Lexar Professional NM1090 PCIe 5.0 SSD is DRAM-based and uses SLC dynamic cache to improve performance, reduce latency, and support Microsoft DirectStorage.

CPU Compatibility. Compatible with Intel 13th and 14th generations and AMD Ryzen 7000 series CPUs.

Monitor Drive Health and Optimize Performance. Use Lexar DiskMaster disk management tool³ to optimize and protect the drive to achieve higher performance, better data security, and a longer lifespan.

Rigorously Tested. All Lexar products undergo extensive testing in the Lexar Quality Labs, facilities with thousands of different cameras and digital devices to ensure performance, quality, compatibility, and reliability.

For more than 28 years, Lexar has been trusted as a leading global brand of memory solutions. Our award-winning lineup includes memory cards, USB flash drives, card readers, solid-state drives, and DRAM. With so many options, it's easy to find the right Lexar solution to fit your needs. Lexar products are available worldwide at major retail and e-tail stores. For more information or support, visit www.lexar.com.

¹ Up to 12000MB/s read transfer, up to 11000MB/s write. Speeds based on internal testing. Actual performance may vary.

² Comparison based on published performance of PCIe 4.0 drives. Actual performance may vary.

³ Coming in mid-2024.

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.

www.lexar.com

©2024 All Rights Reserved. Information, products, specifications, and features are subject to change without notice. Neither Lexar nor Longsys is responsible for omissions or errors in typography or photography. Lexar, the Lexar logo, and all other Lexar trademarks are the property of Longsys Electronics (HK) Co., Ltd. or Shenzhen Longsys Electronics Co., Ltd. All other trademarks are property of their respective owners.

Lexar Retail SKU	Capacity	Region	Single UPC Code	Inner Carton UPC Code	Inner Carton Qty
LNM1090001T-RNANG	1TB	Global	843367134342	10843367134349	10
LNM1090002T-RNANG	2TB		843367134359	10843367134356	
LNM1090004T-RNANG	4TB		843367134366	10843367134363	
LNM1090001T-RNANU	1TB	North America	843367134380	10843367134387	
LNM1090002T-RNANU	2TB		843367134397	10843367134394	
LNM1090004T-RNANU	4TB		843367134403	10843367134400	

Specifications

Form Factor	M.2 2280
Interface	PCIe Gen5x4
Speed	<p>1TB sequential read up to 11,500MB/s, write up to 9,000MB/s Random read up to 1300K IOPs, random write up to 1400K IOPs</p> <p>2TB sequential read up to 12,000MB/s, write up to 11,000MB/s Random read up to 1400K IOPs, random write up to 1400K IOPs</p> <p>4TB sequential read up to 12,000MB/s, write up to 11,000MB/s Random read up to 1400K IOPs, random write up to 1400K IOPs</p>
Operating Temperature	0° to 70°C (32°F to 158°F)
Storage Temperature	-40° to 85°C (-40°F to 185°F)
Shock Resistant	1500G, duration 0.5ms, Half Sine Wave
Vibration Resistant	10~2000Hz, 1.5mm, 20G, 1 Oct/min, 30min/axis (X, Y, Z)
TBW	1TB: 700TBW, 2TB: 1400TBW, 4TB: 3000TBW
MTBF	1,500,000 Hours
Dimensions (L x W x H)	80 x 24 x 17.35mm / 3.15" x 0.94" x 0.68"
Weight	72.5g / 0.16 lbs
Warranty	Five-year limited warranty

www.lexar.com

©2024 All Rights Reserved. Information, products, specifications, and features are subject to change without notice. Neither Lexar nor Longsys is responsible for omissions or errors in typography or photography. Lexar, the Lexar logo, and all other Lexar trademarks are the property of Longsys Electronics (HK) Co., Ltd. or Shenzhen Longsys Electronics Co., Ltd. All other trademarks are property of their respective owners.