



Product Highlights:

- Exceptional performance up to 7400MB/s read, 6500MB/s write¹
- 2x faster than PCIe Gen 3 SSDs²
- Designed with a heatsink to keep your rig cool for better performance and power efficiency
- Up to 40% less power consumption than DRAM cache-enabled PCIe Gen 4 SSDs²
- Host Memory Buffer (HMB) 3.0 activates the DRAM cache function of your device for a smoother transfer speed and seamless performance
- Compatible with PlayStation®5

Capacities:

1TB
(up to 7400MB/s read, 6500MB/s write¹)

2TB
(up to 7400MB/s read, 6500MB/s write¹)

4TB
(up to 7400MB/s read, 6500MB/s write¹)



Incredible Speeds to Get the Job Done

With a blazing 7400MB/s sequential read, 6500MB/s sequential write¹, and random read speeds of up to 1,000,000 IOPs, the Lexar® NM790 SSD has the performance to put you across the finish line first or easily meet your most demanding deadlines.

Twice as Fast. With 2x the speed of PCIe Gen 3 SSDs², the Lexar® NM790 M.2 2280 PCIe Gen 4x4 NVMe SSD helps you perform at your best, fast.

Cool—Even Under High-Pressure Performance. The Lexar® NM790 with Heatsink M.2 2280 PCIe Gen 4x4 NVMe SSD features an integrated heatsink to ensure your system stays cool and maintains speed, power efficiency, and thermal control for sustained high-performance when playing on PlayStation®5 and PCs.

Powerful but Efficient. Consuming up to 40% less power than DRAM cache-enabled PCIe Gen 4 SSDs², the Lexar® NM790 M.2 2280 PCIe Gen 4x4 NVMe SSD not only keeps energy costs down, but also lets you go longer between charges of your laptop battery.

HMB 3.0 and Dynamic SLC Caching. Host Memory Buffer (HMB) 3.0 enables the drive to utilize DRAM memory on your device, and Dynamic SLC cache writes to single-level-cell memory to maintain speed for smooth and seamless performance.

Perfect for Work and Play. Designed for hardcore gamers, professionals, and creators, the Lexar® NM790 SSD has the performance you need to accelerate your game and keep up with your creative endeavors.

Compatible with PlayStation®5. Designed to be the perfect partner, the Lexar® NM790 SSD is compatible with laptops, desktop computers, and PS5™.

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 27 years, Lexar has been a trusted 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.

Lexar Retail SKU	Capacity	Region	Single UPC Code	Inner Carton UPC Code	Inner Carton Qty
LNM790X001T-RN9NG	1TB	Global	843367131242	10843367131249	10
LNM790X002T-RN9NG	2TB		843367131259	10843367131256	
LNM790X004T-RN9NG	4TB		843367131518	10843367131515	
LNM790X001T-RN9NU	1TB	North America	843367131488	10843367131485	10
LNM790X002T-RN9NU	2TB		843367131495	10843367131492	
LNM790X004T-RN9NU	4TB		843367131501	10843367131508	

Specifications

Capacity	1TB, 2TB, 4TB
Form Factor	M.2 2280
Interface	PCIe Gen 4x4
Speed	<p>1TB—Read speed up to 7400MB/s¹, sequential write speed up to 6500MB/s¹, random read up to 1,000,000 IOPs, random write up to 900,000 IOPs</p> <p>2TB—Read speed up to 7400MB/s¹, sequential write speed up to 6500MB/s¹, random read up to 1,000,000 IOPs, random write up to 900,000 IOPs</p> <p>4TB—Read speed up to 7400MB/s¹, sequential write speed up to 6500MB/s¹, random read and write speeds of up to 900,000 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: 1000TBW, 2TB: 1500TBW, 4TB: 3000TBW
MTBF	1,500,000 Hours
Dimensions (W x L x H)	80 x 24 x 9.7 mm / 3.15" x 0.94" x 0.39"
Weight	48.6g / 0.107lbs
Warranty	Five-year limited warranty

¹ Up to 7400MB/s read transfer, up to 6500MB/s write. Speeds based on internal testing. Actual performance may vary.

² Comparison based on internal testing. Actual performance may vary.

Lexar is not liable for any loss of data or images.

NOTE:

Security safeguards, by their nature, are capable of circumvention. Lexar does not guarantee data will be 100% secure from unauthorized access, alteration, or destruction.

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.

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