



Product Highlights:

- Exceptional performance up to 7400MB/s read, 6500MB/s write¹
- Capacities up to 8TB
- 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
- Designed for hardcore gamers, professionals, and creators
- Compatible with PlayStation®5

Capacities:

512GB
(up to 7200MB/s read, 4400MB/s write¹)

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)

8TB
(up to 7000MB/s read, 6200MB/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 Gen3 SSDs², the Lexar® NM790 M.2 2280 PCIe Gen4x4 NVMe SSD helps you perform at your best, fast.

Powerful but Efficient. Consuming up to 40% less power than DRAM cache-enabled PCIe Gen4 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 28 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
LNM790X512G-RNNNG	512GB	Global	843367130276	10843367130273	10
LNM790X001T-RNNNG	1TB		843367130283	10843367130280	
LNM790X002T-RNNNG	2TB		843367130290	10843367130297	
LNM790X004T-RNNNG	4TB		843367131464	10843367131461	
LNM790X008T-RNNNG	8TB		843367137510	10843367137517	
LNM790X512G-RNNNU	512GB	North America	843367131372	10843367131379	10
LNM790X001T-RNNNU	1TB		843367131365	10843367131362	
LNM790X002T-RNNNU	2TB		843367131358	10843367131355	
LNM790X004T-RNNNU	4TB		843367131440	10843367131447	
LNM790X008T-RNNNU	8TB		843367137534	10843367137531	
LNM790X512G-RNNNG	512GB	Amazon	4895217907640	14895217907647	10
LNM790X001T-RNNNG	1TB		4895217907633	14895217907630	
LNM790X002T-RNNNG	2TB		4895217907626	14895217907623	
LNM790X004T-RNNNG	4TB		4895217907756	14895217907753	
LNM790X008T-RNNNG	8TB		4895217917212	14895217917219	

Specifications

Capacity	512GB, 1TB, 2TB, 4TB, 8TB
Form Factor	M.2 2280 (1TB-4TB single side, 8TB double-side)
Interface	PCIe Gen4x4
Speed	<p>512GB: Read speed up to 7200MB/s¹, write speed up to 4400MB/s¹, random read and write speeds of up to 800,000 IOPs</p> <p>1TB: Read speed up to 7400MB/s¹, 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, 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, write speed up to 6500MB/s¹, random read and write speeds of up to 900,000 IOPs</p> <p>8TB: Read speed up to 7000MB/s¹, write speed up to 6200MB/s¹, random read up to 850,000 IOPs, random write 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	512GB: 500TBW, 1TB: 1000TBW 2TB: 1500TBW, 4TB: 3000TBW, 8TB: 6000TBW
MTBF	1,500,000 Hours
Dimension (W x L x H)	80 x 22 x 2.45 mm / 3.15"x0.87"x0.10"
Weight	6g / 0.013lbs
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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