



### Product Highlights:

- **PCIe 5.0 interface delivers cutting-edge sequential read speeds up to 14,000MB/s<sup>1</sup> – 2x faster than a typical Gen 4 SSD<sup>2</sup>**
- **Thermal Defender technology ensures 23% more efficient power consumption<sup>2</sup> and a smoother experience**
- **Host Memory Buffer (HMB) and SLC Dynamic Cache technologies improve performance and user experience by enabling faster game loads and transfers and reducing latency with random read/write speeds up to 2000/1500K IOPS<sup>1</sup>**
- **Get more usable space than a standard SSD of the same listed capacity<sup>3</sup>**
- **Works with Microsoft DirectStorage<sup>4</sup> so you're ready for next-gen AAA games today**
- **Lexar DiskMaster SSD Management tool lets you perform firmware updates, manage the drive and its data, and monitor drive health**

### Capacities:

#### 1TB

up to 14,000MB/s read, 7,500MB/s write<sup>1</sup>

#### 2TB

up to 14,000MB/s read, 10,000MB/s write<sup>1</sup>

#### 4TB

up to 14,000MB/s read, 11,000MB/s write<sup>1</sup>



## Performance that Delivers Under Pressure

Built with PCIe 5.0 performance that delivers read speeds up to 14,000MB/s<sup>1</sup> the NM990 M.2 2280 PCIe 5.0 NVMe SSD is 2x faster than a typical Gen 4 SSD.<sup>2</sup> 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.

**Cutting-Edge Performance.** PCIe 5.0 interface delivers electrifying sequential read speeds up to 14,000MB/s<sup>1</sup> – 2x faster than a typical Gen 4 SSD<sup>2</sup>. This exceptional performance is perfect for serious gamers and professional rendering.

**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.

**Slash Wait Times.** SLC Dynamic Cache delivers random read/write speeds up to 2000/1500K IOPS<sup>1</sup> to greatly reduce wait times, enhance data transfer speeds, and improve system responsiveness.

**Made to Last.** This drive has excellent reliability with rated capacity of up to 3000TBW (4TB drive), offering a better warranty than competing products.

**Works with Microsoft DirectStorage.<sup>4</sup>** Significantly boost game loads, minimize delays, conserve CPU power, and elevate the overall gaming experience.

**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.

For more than 29 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](http://www.lexar.com).

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### Specifications

Capacity	1TB, 2TB, 4TB
Form Factor	M.2 2280
Interface	PCIe Gen5x4
Speed	<p><b>1TB:</b> Sequential read speed up to 14,000MB/s<sup>1</sup>, sequential write speed up to 7,500MB/s<sup>1</sup>, random read up to 1600K IOPs, random write up to 1000K IOPs</p> <p><b>2TB:</b> Sequential read speed up to 14,000MB/s<sup>1</sup>, sequential write speed up to 10,000MB/s<sup>1</sup>, random read up to 2000K IOPs, random write up to 1400K IOPs</p> <p><b>4TB:</b> Sequential read speed up to 14,000MB/s<sup>1</sup>, sequential write speed up to 11,000MB/s<sup>1</sup>, random read up to 2000K IOPs, random write up to 1500K 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, 1Oct/min, 30min/axis (X, Y, Z)
TBW	<b>1TB:</b> 750TBW, <b>2TB:</b> 1500TBW, <b>4TB:</b> 3000TBW
MTBF	1,500,000 Hours
Dimension (W x L x H)	80 x 22 x 2.45 mm / 3.15" x 0.87" x 0.10"
Weight	6g / 0.013lbs
Warranty	Five-year limited warranty

Lexar Retail SKU	Capacity	Region	Single UPC Code	Inner Carton UPC Code	Inner Carton Qty
LN990X001T-RNNG	1TB	Global	843367136841	10843367136848	10
LN990X002T-RNNG	2TB	Global	843367136858	10843367136855	10
LN990X004T-RNNG	4TB	Global	843367136865	10843367136862	10
LN990X001T-RNNU	1TB	NA	843367136872	10843367136879	10
LN990X002T-RNNU	2TB	NA	843367136889	10843367136886	10
LN990X004T-RNNU	4TB	NA	843367136896	10843367136893	10

<sup>1</sup> Speeds based on internal testing. Actual performance may vary.

<sup>2</sup> The result is based on a comparison between the NM990 4TB (PCIe 5.0) and the NM790 4TB (PCIe 4.0). Speeds based on internal testing. Actual performance may vary.

<sup>3</sup> Actual usable memory capacity may vary. 1GB equals 1 billion bytes.

<sup>4</sup> 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.

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