LX2030 & LX3030
Solid State Drives

High Performance
Transfer speed faster than a traditional SSD

Enhanced Reliability
Non-volatile NAND up to 30 times more robust than HDDs

Up to 18X Better Endurance
More Endurance for Your Plotting Needs

LX FAMILY OF SOLID STATE DRIVES

The PNY LX2030 and LX3030 M.2 NVMe SSDs are the ideal solution for "proof of space and time" applications like plotting Chia© Coin. Unlike "proof of work" models like bitcoin which consume large amounts of power by requiring the miners to do complex mathematical calculations, "proof of space and time" applications utilize the unused space on a users' systems, making it a more energy efficient and environmentally conscious model. To secure the blockchain, the data needs to be first created in a process called "plotting", which is only required once per plot file. This process is write intensive, so a desirable SSD for plotting has high sustained write bandwidth and endurance (TBW, or terabytes written). Typically this level of write performance and endurance was only seen on enterprise class SSDs.

The PNY family of LX drives take advantage of LifeXtention technology to offer a Chia plotting TBW rating of up to 54,000 in the LX3030 2TB. To deliver such a high Plotting TBW, the LX series of PNY SSDs utilize an advanced AI Engine and LDPC to improve NAND endurance, making them the best unit cost for plotting. Without sacrifice, you are able to take full advantage of LifeXtention technology and the up to 18X better endurance by adding an LX drive to your system.

The PNY LX2030 and LX3030 are engineered with the precision and quality our customers have enjoyed with the CS families of SSDs. We've taken the most advanced NAND flash and refined the LX family of SSDs to achieve a higher threshold for endurance and reliability. PNY's extensive testing and rigorous validation process ensures compatibility across various platforms and multiple operating systems.

APPLICATIONS
• Designed for Chia Coin (XCH)
• Ultra High Endurance Applications

FEATURES AND BENEFITS
• Enhanced With LifeXtention Technology
• Uses an A.I. Engine for Smart NAND Access
• Up to 18X Better Endurance

PRODUCT SPECIFICATIONS

NAND Components	3D Flash Memory
Interface	PCIe Gen3 x4
Form Factor	M.2 2280
PERFORMANCE (CHIA PLOTTING READ/WRITE)	
2TB LX2030	3,200 MB/s (Read), 1,000 MB/s (Write)
1TB and 2TB LX3030	3,200 MB/s (Read), 2,400 MB/s (Write)
POWER	
PCIe Power Management	APST, ASPM, L1.2
RELIABILITY/SECURITY	
Chia Plotting TBW	2TB LX2030: 10,000 (Standard TBW: 3,000) 1TB LX3030: 27,000 (Standard TBW: 10,000) 2TB LX3030: 54,000 (Standard TBW: 20,000)
Mean Time Between Failures (MTBF)	1.8 Million Hours
Uncorrectable Bit Error Rate (UBER)	< 1 sector per 10^16 bits read
Error Correction Code	LDPC (Low Density Parity Check) ECC Algorithm
Product Health Monitoring	Self-Monitoring, Analysis and Reporting Technology (S.M.A.R.T)
Full End-to-End Data path protection	Supported
TCG OPAL	Supported
ENVIRONMENTAL	
Operating Temperature	0°C ~ 70°C
Storage Temperature	-40°C ~ 85°C
Operation Airflow	800 LFM at 35°C ambient
COMPATIBILITY	
NVMe	NVMe 1.3
ADDITIONAL FEATURES	
Performance Optimization	TRIM (requires OS support)
SmartECC TM & SmartRefresh TM	Supported

PRODUCT INFORMATION

Service & Support	LX2030 2TB: 1-Yr. Limited Warranty or 10,000 TBW* LX3030 1TB: 2-Yr. Limited Warranty or 27,000 TBW* LX3030 2TB: 5-Yr. Limited Warranty or 54,000 TBW*
Usable Capacities (IDEMA)	LX2030: 2TB LX3030: 1TB, 2TB
PNY Part Number	LX2030 2TB: M280LX2030-2TB-RB LX 3030 1TB: M280LX3030-1TB-RB LX 3030 2TB: M280LX3030-2TB-RB
UPC	LX2030 2TB: 751492648644 LX 3030 1TB: 751492648651 LX 3030 2TB: 751492648668
Box Dimensions	3.9" x 2.75" x 0.25"
Dimensions (L x W x H)	22 x 80 x 4 mm (Max)
Weight	6.6g

*For warranty details please see www.pny.com.

ver. 10-05-21