

# CL4100 Series

## Client SSD: CL4111

The PNY CL4111 is a 2.5-inch SATA III (6 Gb/s) fast and reliable OEM-grade solid-state drive (SSD) from the CL4100 Client Series of SSD products. Optimized for reliability, power-efficiency, and durability, the CL4111 is targeted to meet stringent OEM requirements.

The PNY CL4111 SSD provides higher data input/output (I/O) operations, and throughput speeds while using a fraction of the power. In addition, the CL4100 Client Series SSD features DevSleep low power idle modes to further optimize power efficiency for mobile devices resulting in a noticeable increase in battery life without sacrificing system responsiveness.

The PNY CL4111 offers capacities including 120, 240, 480 and 960 GB using industry standard, compute grade MLC NAND flash memories paired with SandForce® family of controllers<sup>2</sup>. The hardware based data compression optimizes writes to the flash memory and implements highly intelligent block management with wear leveling schemes to increase overall drive endurance and reliability.

PNY works closely with vendors to optimize and qualify every aspect of the drives, including careful board design, tested firmware features and reliability, and extensive drive validation. The CL4111 also features enhanced ECC and AES 256-bit encryption with drive password for reliable data protection and security without compromise in performance. The CL4111 SSD is your best choice for easy deployment and secure manageability in client IT environments, helping to lower total cost of ownership (TCO) over the lifetime of the drive.

### SUPERIOR PERFORMANCE & ENHANCED SECURITY

- High sequential read speed of up to 560 MB/s
- Random read speeds up to 79K IOPS for read intensive applications
- Hardware based AES 256-bit encryption, Secure Erase features
- Best in class end to end data protection with enhanced ECC

### IMPROVED RELIABILITY WITH LOWER TOTAL COST OF OWNERSHIP (TCO)

- MTBF: 1,500,000 Hours with 5 years warranty
- Support for S.M.A.R.T drive health monitoring
- Extensive qualification reduces downtime and lowers TCO in client IT environments

### APPLICATIONS

- Supports multiple OS and business applications; very fast application launch
- Ideal option for workstations and servers

<sup>1</sup> -RB (Retail Box), -BLK (Bulk)

<sup>2</sup> 960GB SSD capacity is supported using SMI family of controllers



### SPECIFICATIONS

PNY Part Number	120 GB: SSD7CL4111-120- <sup>1</sup> 240 GB: SSD7CL4111-240- <sup>1</sup> 480 GB: SSD7CL4111-480- <sup>1</sup> 960 GB: SSD7CL4111-960- <sup>1</sup>
UPC codes	751492583471 (SSD7CL4111-120-RB) 751492581040 (SSD7CL4111-240-RB) 751492581057 (SSD7CL4111-480-RB) 751492582269 (SSD7CL4111-960-RB)
Usable Capacities	120 GB, 240 GB, 480 GB, 960 GB
NAND Components	Multi-Level Cell (MLC) NAND Flash memory
Interface	SATA-III (6 Gb/s), Backwards compatible with SATA-II
Form Factor	2.5"
Dimensions	100 x 70 x 7 mm
Weight	95g

### PERFORMANCE

Sequential Max Read	Up to 560 MB/s (960GB) Up to 555 MB/s (480GB, 240GB, 120GB)
Sequential Max Write	Up to 455 MB/s (960GB) Up to 530 MB/s (480GB, 240GB, 120GB)
Random Read Operations (4KB)	Up to 79,000 IOPS (960GB) Up to 36,000 IOPS (480GB, 240GB, 120GB)
Random Write Operations (4KB)	Up to 75,000 IOPS (960GB) Up to 90,000 IOPS (480GB, 240GB, 120GB)

### ENVIRONMENTAL

Power Consumption	2.1W Active, 0.6W Idle, supports DevSleep, Power management features
Operating Temperatures	0° ~ 70°C
Storage Temperatures	-45° ~ 85°C
Certifications	RoHS, CE, FCC, REACH, BSM, UL

### RELIABILITY / SECURITY

Mean Time Before Failure (MTBF)	1,500,000 Hours
End-To-End Data Protection	ECC: Up to 55 bits correctable per 512-byte sector Read
Data Encryption	AES-256 compliant
Secure Erase	Standard, Enhanced Secure Erase
Product Health Monitoring	Self-Monitoring, Analysis and Reporting Technology (S.M.A.R.T)

### COMPATIBILITY

Serial ATA	Fully compliant with Serial ATA International Organization: Serial ATA Revision 3.1. Fully compliant with ATA/ ATAPI-8 Standard Native Command Queuing (NCQ)
Power Requirements	Standard SATA Power Connector

### ADDITIONAL FEATURES

Performance Optimization	TRIM (requires OS support)
Service & Support	5-Year Limited Warranty