

R6060 QLC Series

E3.L & E1.L | Enterprise QLC NVMe SSD

14/4 GB/s

SEQ. R/W Bandwidth

245.76 TB

Ultra-High Capacity



DapuStor R6060 series is powered by the PCIe Gen5 DP800 controller and 3D eQLC NAND, available in multiple form factors and supporting NVMe 2.0 with advanced Flexible Data Placement (FDP). Built on a high-bandwidth PCIe 5.0 architecture, it delivers ultra-high capacity, leading read performance and low power consumption, enabling higher storage density and optimized TCO for AI, cloud and data center deployments.

| Optimized for AI Training Workloads

Purpose-built for AI training pipelines, DapuStor R6060 QLC SSD delivers 14GB/s sequential read bandwidth and up to 245TB capacity. Its high throughput paired with ultra-high density accelerates data preprocessing, providing efficient, scalable storage for large-scale enterprise AI datasets.

| Native Liquid Cooling Support

DapuStor R6060 series is offered in E3.L and E1.L form factors with native support for cold plate liquid cooling. It maintains stable thermal performance under continuous high-intensity AI workloads, enabling higher rack density for next-generation data center infrastructure.

| FDP: Smarter Data Placement

With NVMe 2.0 FDP enabling precise host data placement, DapuStor R6060 reduces write amplification to WAF=1 in specific scenarios, unlocking full 3D eQLC NAND potential in throughput, endurance and cost efficiency.

| Intelligent Firmware for Reliability

Built on advanced 3D eQLC NAND for superior performance-per-watt, DapuStor R6060 series employs innovative machine learning to minimize system-level NAND retries, proactively mitigating failure risks under complex workloads to ensure sustained performance and enterprise-grade reliability.

| Advanced Features

NVMe 2.0

- Online Upgrade, 128 Namespaces, Multi-Stream, Atomic Write, Sanitize, Copy, Verify, Compare.

OCP 2.5 Compliant

- Features Telemetry, Latency Monitor, and Thermal Throttling.

NVMe-MI 1.2

- Supports MCTP Over I2C/SMBus, Over PCIe VDM, OOB upgrade, and Send/Receive.

End-to-End Protection

- Supports T10 DIF/DIX, 5 sector formats (Type 1/2/3), and detailed logging.

Enterprise Security

- Includes Secure Boot, Firmware Verification, Format and Sanitize.

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E3.L & E1.L | Enterprise QLC NVMe SSD



I Specifications

PCN (Product Code Name)	R6060		
Capacity (TB)	122.88	245.76	245.76
Form Factor	E3.L 1T		E1.L 9.5mm
Interface	PCIe 5.0x4 / 2x2, NVMe 2.0		
128KB Read Bandwidth MB/s	14000	13000	14000
128KB Write Bandwidth MB/s	4000	4000	3600
4KB Random Read KIOPS	2300	2100	2100
Random Write KIOPS	30 @32KB	16 @64KB	16 @64KB
Random Latency R/W (μs)	90/25		
Sequential Latency R/W (μs)	8/8		
Idle Power (W)	5		
Flash Type	3D Enterprise QLC NAND Flash		
PN (Model Number)	DPRP590128Q9122T180/ DPRP590128Q9122T190	DPRP590256QD245T280/ DPRP590256QD245T290	DPRP580256QD245T280/ DPRP580256QD245T290
Endurance	0.6 DWPD		
MTBF	2.5 million hours		
UBER	1 sector per 10 ¹⁸ bits read		
Warranty	5 years		

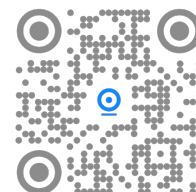
*Differences in hardware, software, or configuration will affect actual test results.

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