

R6060 QLC Series●

DapuStor® Enterprise NVMe SSD



DapuStor® R6060 QLC Series is powered by PCIe Gen5 DP800 controller and 3D eQLC NAND, supporting NVMe 2.0 and advanced FDP features. Built on a high-bandwidth PCIe 5.0 architecture, R6060 delivers ultra-high capacity, high read performance, and low power consumption. It enables higher storage density and optimized TCO for AI, cloud, and data center applications.

I Scaling AI: Higher Density & Data Efficiency

Deeply optimized for AI workloads, the DapuStor R6060 QLC SSD delivers 14 GB/s of sequential read bandwidth and up to 122 TB of capacity. This combination of high throughput and massive density accelerates data preprocessing and provides efficient, scalable storage for enterprise-grade AI datasets.

14/4 GB/s

SEQ. R/W Bandwidth

122.88 TB

Ultra-High Capacity

I FDP: Flexible Data Placement

The R6060 leverages NVMe 2.0 and FDP technology to maximize eQLC potential. It empowers the host with precise data placement control, drastically reducing Write Amplification (WAF) to enhance both speed and endurance – offering the ideal balance of performance and cost for QLC scenarios.

I Optimized Firmware Technology

Utilizing advanced 3D eQLC NAND Flash to deliver superior performance-per-watt, the R6060 leverages innovative Machine Learning to minimize system-level NAND retries. It intelligently predicts scenarios in complex workloads to proactively prevent failures, ensuring a dual guarantee of performance and reliability.

I 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.

FDP Support

- Boosts random write speed, reduces WAF (achieves WAF=1 in specific scenarios).

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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I Specifications

PCN (Product Code Name)	R6060			
Capacity (TB)	15.36	30.72	61.44	122.88
Form Factor	U.2 15mm			
Interface	PCIe 5.0 x 4/2x2, NVMe 2.0			
Read BW @128KB MB/s	14000	14000	14000	14000
Write BW @128KB MB/s	4000	4000	4000	4000
Rand. Read @4KB KIOPS	3000	3000	2800	2800
Rand. Write KIOPS	40 @16KB		25 @32KB	
Rand. Latency R/W μs	80/25			
Seq. Latency R/W μs	7/8			
Max. Power (W)	25			
Idle Power (W)	5			
Flash Type	3D Enterprise QLC NAND Flash			
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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