



DC4800 | PCIe NVMe | OCP Cloud Spec 1.0

Next-Generation Data Center SSDs for Fast, Cool, and Consistent Storage

SMART Modular's next generation SSD family is designed for high performance and energy-efficient data centers. Utilizing a novel hardware-accelerated SSD design to leapfrog current solutions in the market, these data center SSDs establish a new standard in performance, latency consistency, and power efficiency that will drive the next generation of data center storage.

Designed for Demanding Applications and Stringent SLAs

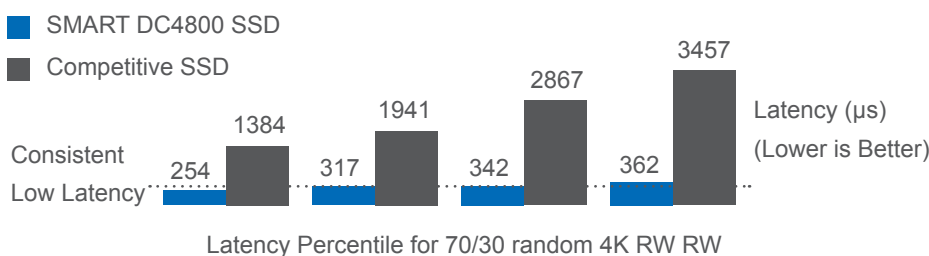
Today's compute applications place extraordinary demands on data center servers and continue to increase the need for consistent and reliable performance from the underlying hardware. The ability to meet Service Level Agreements (SLAs) that rely on frequent access to data is highly dependent on the SSD storage controller design.

SMART Modular's Data Center SSD family is designed with next generation servers and data services in mind:

- **Maximum sustained performance** capable of fully saturating the server's PCIe Gen 4
- **Improved, sustained quality of service (QoS)** that achieves 7-nines (99.99999%) at less than 400 microseconds
- **Intelligent thermal and power management** that results in significantly reduced thermal throttling

Combined with SMART's excellence in manufacturing and test, the DC SSD family delivers a more consistent and highly reliable standard for modern data centers.

Superior Latency QoS <370µs at 99.99999%



U.2



GEN4
SSD STORAGE

Hyperscaler, Hyper
Converged, Enterprise,
and Edge Data Centers



E1.S


Architected for Low Power

SMART's DC SSD family uses a hardware accelerated architecture that runs cooler while maintaining maximum performance. Low power operation helps achieve energy conservation standards and also increases server density per square foot. Save up to 200W per server in a standard 2U/24 configuration.

DC Family

Family	Capacity	Form Factor*	Interface
DC4800 U.2 NVMe Gen 4	1.92TB	U.2, 15mm	PCIe Gen 4x4 NVMe 1.4b
	3.84TB		
	7.68TB		
DC4800 E1.S NVMe Gen 4	1.92TB	E1.S, 5.9mm	
	3.84TB		
	7.68TB		
	1.92TB	E1.S, 9.5mm	
	3.84TB		
	7.68TB		
DC4800 E1.S, 15mm	1.92TB	E1.S, 15mm	
	3.84TB		
	7.68TB		

* Most popular configurations shown. Please contact sales for other configuration availability.



Peak Performance

SMART's data center SSDs run full-throttle for maximum throughput.

	Read	Write
Sequential (GB/s) Gen4	7.0 GB/s	4.3 GB/s
Random (KIOP/s) Gen4	1,400 KIOP/s	200 KIOP/s



Low Power

SMART's low power architecture keeps the SSDs running cool.

- Industry-leading low Idle and Active Power
- Less heat leaving more headroom for NAND to run fast
- Reduced OpEx costs for SSDs and cooling



Enterprise Features

Our SSDs are designed for a diverse range of data center applications

- E2E Data protection, TCG, OPAL, eDrive
- Secure Platform Boot
- Multiple Namespaces
- 1 and 3 DWPD
- SMART/Health Log Telemetry
- External Power Loss Protection



For more information, please visit: www.smartm.com

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