



PRODUCT BRIEF | 2.5 in., 1.8 in. SSD

SOLID STATE DRIVES

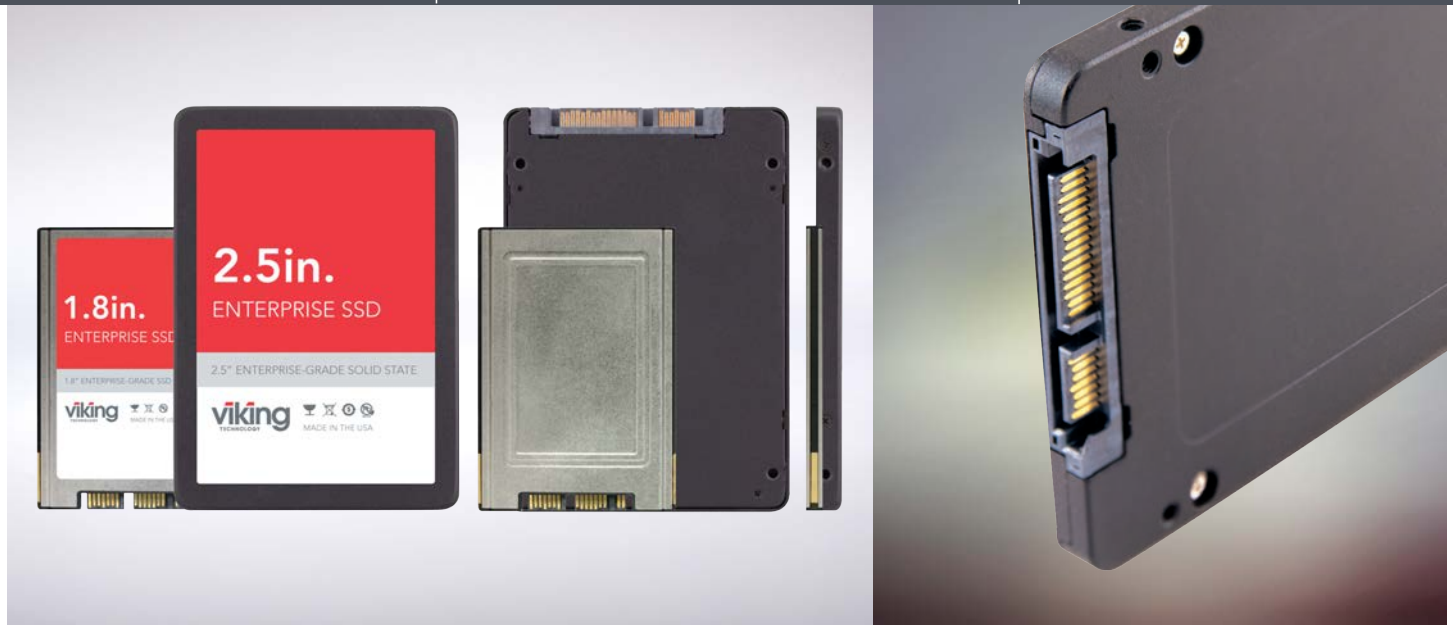
Viking Technology's 2.5 Inch SSDs are built with the understanding of OEM expectations through comprehensive and exhaustive design verification and production test methods. The 2.5 Inch SSDs deliver the highest levels of quality, environmental ruggedness and endurance. 2.5 Inch SSDs can be leveraged for the Enterprise market with engineered options for the highest levels of performance and reliability, Viking featuring multiple interfaces including SATA, SAS and PCIe/NVMe that delivers high performance with reliability.

FEATURES

- ▶ Support MLC/SLC/3D NAND Configurations
- ▶ Advanced SSD-specific SMART command support
- ▶ Package and firmware customization
- ▶ Locked BOM
- ▶ Data path protection, Encryption, Max Write Performance

APPLICATIONS SERVED

SSD Storage Array	File System (Parallel & Serial)	Burst Data Deserializer
Software & NVMe RAID	Tiering & OLTP Log Cache (LC)	Remote Shared Persistent Memory



SOLID STATE DRIVES

2.5 SSD	1.8 SSD
CAPACITY	
Up to 8TB	Up to 1TB
PERFORMANCE	
Up to 430,000 IOPS (Sustained Random Read/Write)	Up to 100,000 IOPS (Sustained Random Read/Write)
2,100MB/1,400MB (Sustained Read/Write)	520MB/s (Sustained Read/Write)
SATA 6GB/s or PCIe Gen3/NVMe (Interface)	SATA 6GB/s or PCIe Gen3/NVMe (Interface)
RELIABILITY	
5 DWPD (SLC)	5 DWPD (SLC)
1 DWPD (MLC)	1 DWPD (MLC)

2.5 SSD	1.8 SSD
ENVIRONMENTAL	
Shock – 1000G (0.5ms), 50G (2ms)	Shock – 1000G (0.5ms), 50G (2ms)
Vibration	2.16 grams (5 ~ 700Hz) – 3 axis
Operating Temp – 0°C to 70°C (Ctemp) -45°C to 85°C (Itemp)	Operating Temp – 0°C to 70°C (Ctemp) -45°C to 85°C (Itemp)
Altitude – 80,000 ft	Altitude – 80,000 ft
Humidity – 5% to 95% non-condensing, relative	Humidity – 5% to 95% non-condensing, relative
Safety/Agency/Compliance – FCC, CE, TUV	Safety/Agency/Compliance – FCC, CE, TUV
POWER	
<6W – Active (Typical)	<6W – Active (Typical)
DIMENSIONS	
100.2mm (l) x 69.9mm (w) x 9.5mm (h)	78.5mm (l) x 54.0mm (w) x 5.0mm (h)

2.5 SSD PART NUMBERS

FORM FACTOR	INTERFACE	TEMP	CAPACITY	P/N	CONTROLLER	NAND
2.5" SSD	SATA-III	0°C to+70°C	480GB	VPFS22480GZCZMTL	PhisonS11	TSB 15nm MLC
2.5" SSD	SATA-III	0°C to+70°C	480GB	VPFS22480GTCAMTL	PhisonS10	TSB 15nm MLC
2.5" SSD	SATA-III	-40°C to+85°C	480GB	VPFS22480GZIZMTL	PhisonS11	TSB 15nm MLC
2.5" SSD	SATA-III	0°C to+70°C	960GB	VPFS22960GTCZMTL	PhisonS10	TSB 15nm MLC
2.5" SSD	SATA-III	-40°C to+85°C	480GB	VRFS22480GTIZMTL	PhisonS10	TSB 15nm MLC
2.5" SSD	SATA-III	-40°C to+85°C	960GB	VRFS22960GTICMTL	PhisonS10	TSB 15nm MLC
2.5" SSD	SATA-III	-40°C to+85°C	1920GB	VRFS221T92TICMTL	PhisonS10	TSB 15nm MLC
2.5" SSD	SATA-III	-40°C to+85°C	480GB	VRFS22480GTICPTL	PhisonS10	TSB 15nm pSLC
2.5" SSD	SATA-III	-40°C to+85°C	960GB	VRFS22960GTICPTL	PhisonS10	TSB 15nm pSLC
2.5" SSD	SATA-III	0°C to+70°C	480GB	VSFS22480GLCHVSME	SM863a	3rd Gen VNAND
2.5" SSD	SATA-III	0°C to+70°C	960GB	VSFS22960GLCVSDE	SM863a	3rd Gen VNAND
2.5" SSD	SATA-III	0°C to+70°C	1920GB	VSFS221T92LCFVSME	SM863a	3rd Gen VNAND
2.5" SSD	SATA-III	0°C to+70°C	3840GB	VSFS223T84LCGVSME	SM863a	3rd Gen VNAND
2.5" SSD	SATA-III	0°C to+70°C	480GB	VSFS22480GLCHWSME	PM863a	3rd Gen VNAND
2.5" SSD	SATA-III	0°C to+70°C	960GB	VSFS22960GLCFWSME	PM863a	3rd Gen VNAND
2.5" SSD	SATA-III	0°C to+70°C	1920GB	VSFS221T92LCFWSME	PM863a	3rd Gen VNAND

For a full list of 2.5 in. part numbers please contact sales@vikingtechnology.com

1.8 SSD PART NUMBERS

For a full list of 1.8 in. part numbers please contact sales@vikingtechnology.com

For price and availability, please email us at sales@vikingtechnology.com.



Global Locations

US Headquarters	Canada Office	Texas Office	India Office	Singapore Office
2950 Red Hill Avenue Costa Mesa, CA 92626 Main: +1 714 913 2200 Fax: +1 714 913 2202	500 March Road Ottawa, ON K2K 0J9 Canada	1201 W. Crosby Road Carrollton, TX 75006 USA	A 3, Phase II, MEPZ-Special Economic Zone NH 45, Tambaram, Chennai-600045 India	No 2 Chai Chee Drive Singapore, 109840

For all of our global locations, visit our website under global locations. For sales information, email us at sales@vikingtechnology.com