



PRODUCT BRIEF | 2.5 in., 1.8 in. SSD

# SOLID STATE DRIVES

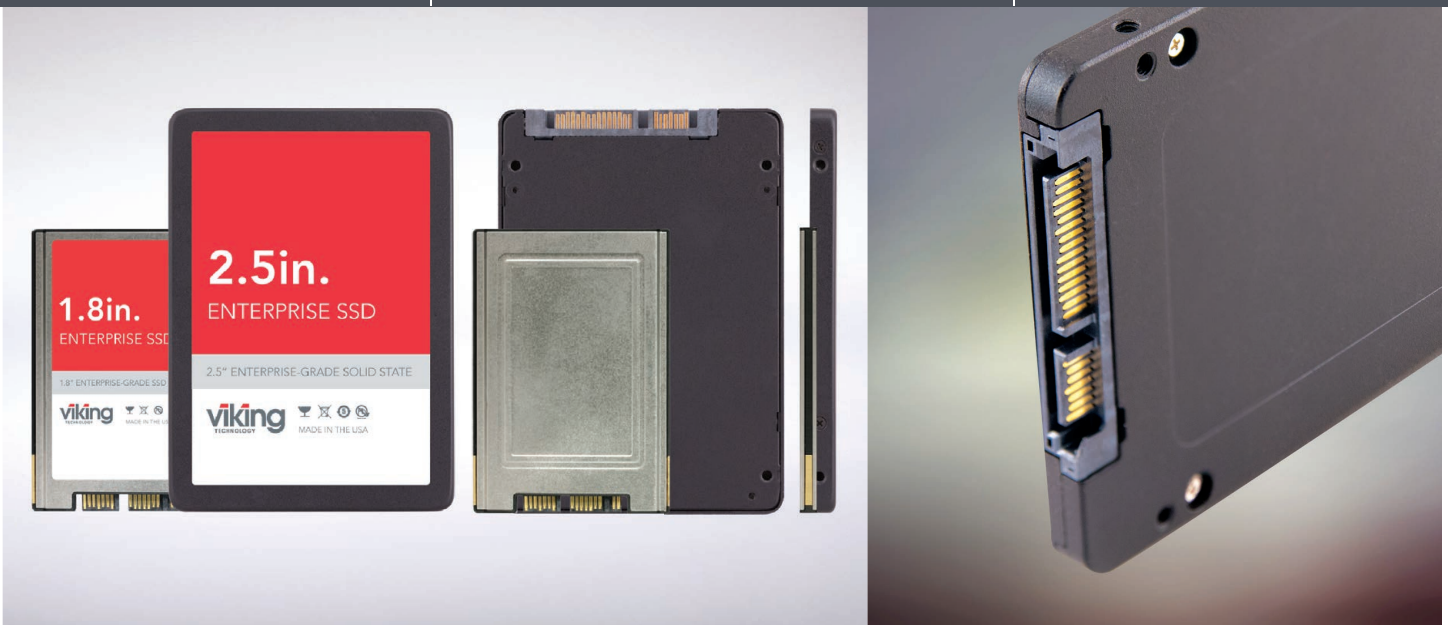
Viking Technology's 2.5 Inch SSDs are built with the understanding of OEM expectations through comprehensive and exhaustive design verification and production test methods. The 2.5 Inch SSDs deliver the highest levels of quality, environmental ruggedness and endurance. 2.5 Inch SSDs can be leveraged 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



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2.5 SSD	1.8 SSD
<b>CAPACITY</b>	
Up to 8TB	Up to 1TB
<b>PERFORMANCE</b>	
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)
<b>RELIABILITY</b>	
5 DWPD (SLC)	5 DWPD (SLC)
1 DWPD (MLC)	1 DWPD (MLC)

2.5 SSD	1.8 SSD
<b>ENVIRONMENTAL</b>	
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
<b>POWER</b>	
<6W – Active (Typical)	<6W – Active (Typical)
<b>DIMENSIONS</b>	
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" PCIe	7mm	0°C to +70°C	960GB	VWFN22960G2CTWW	WD	TSB BiCS 3D
2.5" PCIe	7mm	0°C to +70°C	7682GB	VWFN227T682CVWW	WD	TSB BiCS 3D
2.5" PCIe	7mm	0°C to +70°C	6400GB	VSFN256T40YC8WSA	Samsung	Samsung
2.5" PCIe	7mm	0°C to +70°C	3200GB	VSFN253T20YC4WSA	Samsung	Samsung
2.5" PCIe	7mm	-40°C to +85°C	960GB	VRFN22960GJIHWT3	SM2262	TSB BiCS 3D
2.5" PCIe	7mm	-40°C to +85°C	480GB	VRFN22480GJI5WT3	SM2262	TSB BiCS 3D
2.5" SAS	7mm	0°C to +70°C	960GB	VSF225960G4CFWSA	Samsung	Samsung
2.5" SAS	7mm	0°C to +70°C	7680GB	VSF2257T684C8WSA	Samsung	Samsung
2.5" SATA	7mm	0°C to +70°C	512GB	VWFS22512G2CHWW3	WD	TSB BiCS 3D
2.5" SATA	7mm	0°C to +70°C	1000GB	VWFS22001T2CHWW3	WD	TSB BiCS 3D
2.5" SATA	7mm	0°C to +70°C	960GB	VSFS22960GFCLWSAE	Samsung	Samsung
2.5" SATA	7mm	0°C to +70°C	7680GB	VSFS227T68FC8WSAE	Samsung	Samsung
2.5" SATA	7mm	-40°C to +85°C	960GB	VRFS22960GEIHWT3	SM2259	TSB BiCS 3D
2.5" SATA	7mm	-40°C to +85°C	480GB	VRFS22480GEI5WT3	SM2259	TSB BiCS 3D
2.5" SATA	7mm	-40°C to +85°C	240GB	VRFS22240GEI5WT3	SM2259	TSB BiCS 3D
2.5" SATA	7mm	-40°C to +85°C	60GB	VRFS22060GEI5WT3	SM2259	TSB BiCS 3D

For a full list of 2.5 in. part numbers please contact [sales@vikingtechnology.com](mailto:sales@vikingtechnology.com) or visit our website.

## 1.8 SSD PART NUMBERS

For a full list of 1.8 in. part numbers please contact [sales@vikingtechnology.com](mailto:sales@vikingtechnology.com) or visit our website.



### Global Locations

#### US Headquarters

2950 Red Hill Avenue  
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#### India Office

A 3, Phase II, MEPZ-Special Economic Zone  
NH 45, Tambaram, Chennai-600045  
India

#### Singapore Office

No 2 Chai Chee Drive  
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For all of our global locations, visit our website under global locations. For price and availability, please email us at [sales@vikingtechnology.com](mailto:sales@vikingtechnology.com).