



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

SSD Storage Array

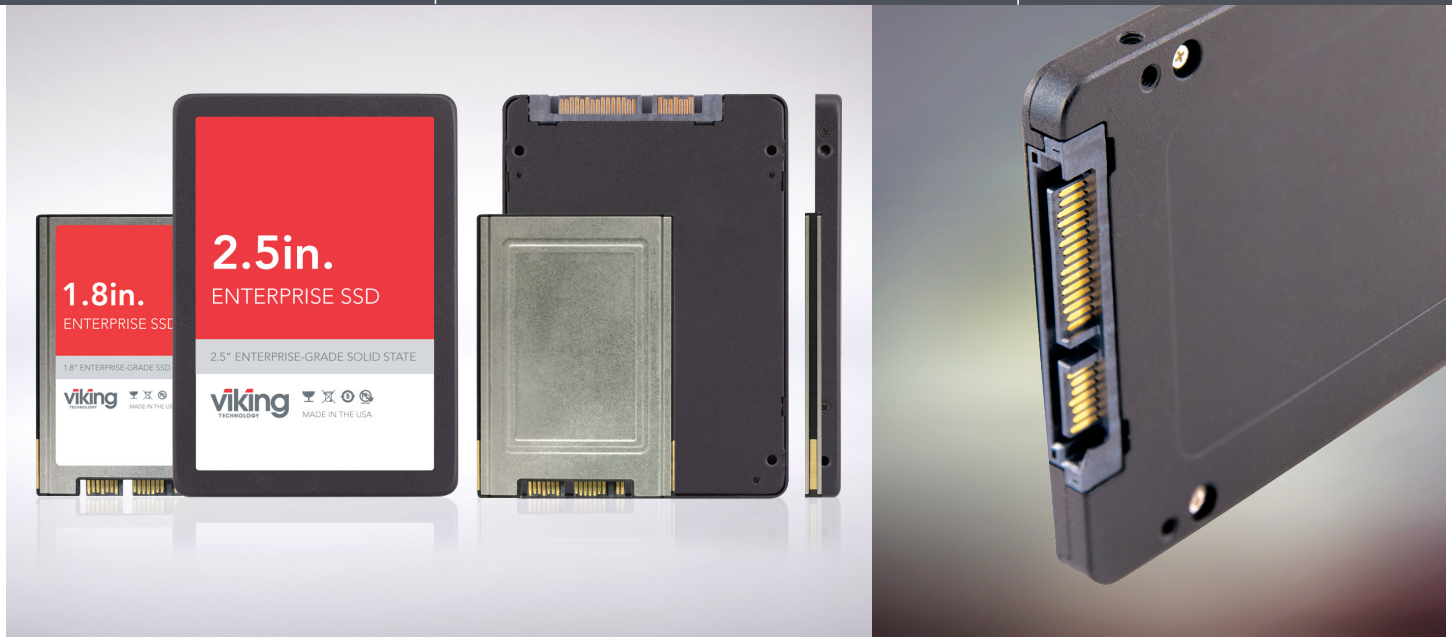
File System (Parallel & Serial)

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 |
|---|---|
| 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