

PRODUCT BRIEF | SlimSATA, mSATA SSD

# SOLID STATE DRIVES

slimSATA & mSATA SSD are solid state drive solutions ideal for space-constrained embedded server & storage systems, telecommunications, automotive, gaming and many industrial applications. Both solutions deliver outstanding performance in a small, industry standard form factor and features intelligent flash management techniques to optimize endurance and wear-leveling. Both drives come in a variety of performance and capacity as well as ruggedization and increased endurance.

## FEATURES

- ▶ Available in SATA-III 6Gbs
- ▶ Read intensive & Low cost solution options
- ▶ Max write performance
- ▶ Supports MLC / SLC NAND Configurations
- ▶ Advanced SSD-specific SMART command support
- ▶ Insulation against single NAND supply issues

Client & Enterprise controller options

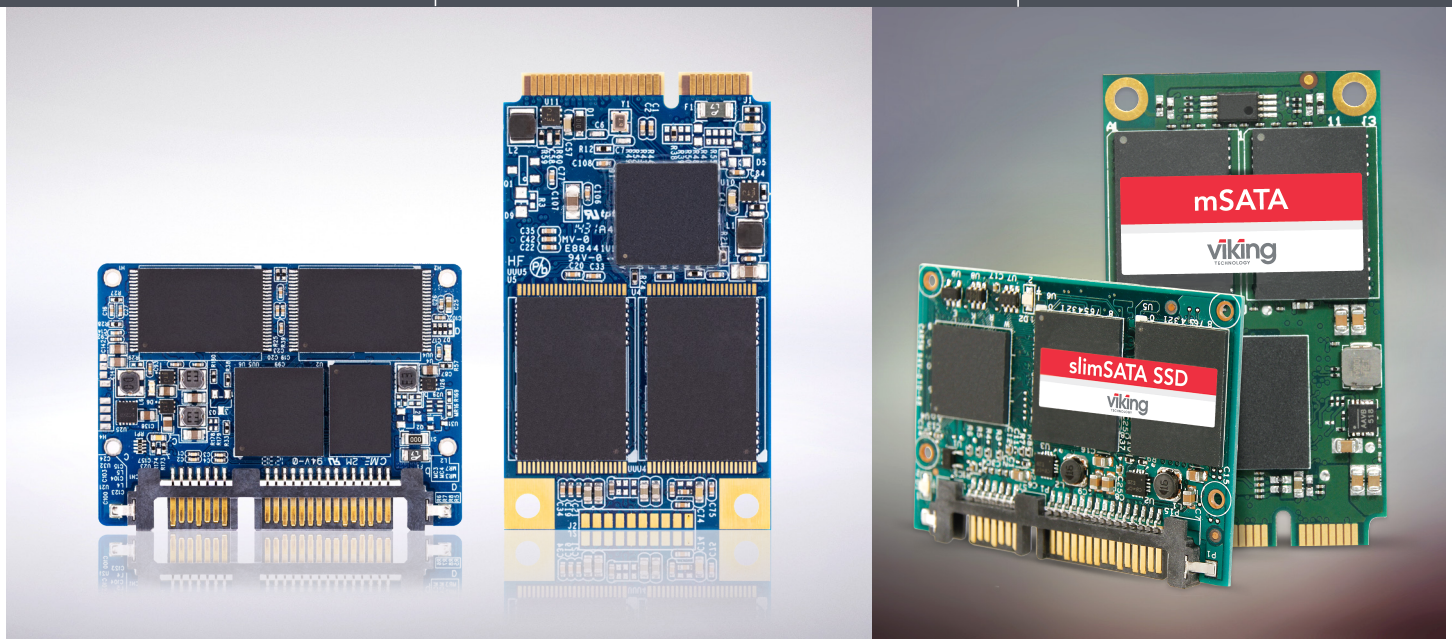
Toshiba & Micron MLC

3D NAND options

Power fail protection

Enhanced & Ruggedized storage

Conformal Coated options



# SOLID STATE DRIVES

| CAPACITY         |             |
|------------------|-------------|
| MLC              | 4GB to 64GB |
| eMLC/MLC/3D NAND | 30GB to 1TB |

| PERFORMANCE  |                |
|--------------|----------------|
| Random Read  | Up to 500 MB/s |
| Random Write | Up to 350 MB/s |
| Interface    | Up to SATA 6Gb |

| ENVIRONMENTAL            |   |
|--------------------------|---|
| Shock                    | 50g, 11ms, 3 shocks applied on 3 perpendicular axis |
| Vibration                | 16.4g rms 10 - 2,000 Hz, 3 axis                     |
| Operating Temp           | 0°C to 70°C (Ctemp)<br>-40°C to 85°C (Itemp)        |
| Altitude                 | 80,000 ft   |
| Humidity                 | 5% to 95%, non-condensing, relative                 |
| Safety/Agency/Compliance | FCC, CE, TUV  |

| POWER            |     |
|------------------|-----|
| Active (Typical) | <2W |

| DIMENSIONS |                                  |
|------------|----------------------------------|
| SlimSATA   | 39.80 (w) x 54.00 (l) x 3.85 (h) |
| mSATA      | 29.85 (w) x 50.8 (l) x 3.85 (h)  |

## SlimSATA SSD PART NUMBERS

| FORM FACTOR | INTERFACE | TEMP        | CAPACITY | P/N              | CONTROLLER | NAND         |
|-------------|-----------|-------------|----------|------------------|------------|--------------|
| mSATA       | SATA-III  | 0°C to+70°C | 32GB     | VPFEM2032GTCDMTL | PhisonS10  | TSB 15nm MLC |
| mSATA       | SATA-III  | 0°C to+70°C | 64GB     | VPFEM2064GZCDMTL | PhisonS11  | TSB 15nm MLC |
| mSATA       | SATA-III  | 0°C to+70°C | 120GB    | VPFEM2120GTCBMTL | PhisonS10  | TSB 15nm MLC |
| mSATA       | SATA-III  | 0°C to+70°C | 128GB    | VPFEM2128GZCAMTL | PhisonS11  | TSB 15nm MLC |
| mSATA       | SATA-III  | 0°C to+70°C | 256GB    | VPFEM2256GZCAMTL | PhisonS11  | TSB 15nm MLC |
| mSATA       | SATA-III  | 0°C to+70°C | 480GB    | VPFEM2480GTCZMTL | PhisonS10  | TSB 15nm MLC |
| mSATA       | SATA-III  | 0°C to+70°C | 32GB     | VPFEM2032GZCDMTL | PhisonS11  | TSB 15nm MLC |
| mSATA       | SATA-III  | 0°C to+70°C | 64GB     | VPFEM2064GTCYMTL | PhisonS10  | TSB 15nm MLC |
| mSATA       | SATA-III  | 0°C to+70°C | 240GB    | VPFEM2240GTCAMTL | PhisonS10  | TSB 15nm MLC |
| mSATA       | SATA-III  | 0°C to+70°C | 960GB    | VPFEM2001TTCCMTL | PhisonS10  | TSB 15nm MLC |

## mSATA PART NUMBERS

| FORM FACTOR | INTERFACE | TEMP        | CAPACITY | P/N              | CONTROLLER | NAND         |
|-------------|-----------|-------------|----------|------------------|------------|--------------|
| slimSATA    | SATA-III  | 0°C to+70°C | 32GB     | VPFEM1032GZCDMTL | PhisonS11  | TSB 15nm MLC |
| slimSATA    | SATA-III  | 0°C to+70°C | 64GB     | VPFEM1064GZCDMTL | PhisonS11  | TSB 15nm MLC |
| slimSATA    | SATA-III  | 0°C to+70°C | 128GB    | VPFEM1128GZCBMT  | PhisonS11  | TSB 15nm MLC |
| slimSATA    | SATA-III  | 0°C to+70°C | 256GB    | VPFEM1256GZCAMTL | PhisonS11  | TSB 15nm MLC |
| slimSATA    | SATA-III  | 0°C to+70°C | 64GB     | VPFEM1064GTCBMTL | PhisonS10  | TSB 15nm MLC |
| slimSATA    | SATA-III  | 0°C to+70°C | 128GB    | VPFEM1128GTCBMTL | PhisonS10  | TSB 15nm MLC |
| slimSATA    | SATA-III  | 0°C to+70°C | 256GB    | VPFEM1256GTCAMTL | PhisonS10  | TSB 15nm MLC |
| slimSATA    | SATA-III  | 0°C to+70°C | 512GB    | VPFEM1512GTCZMTL | PhisonS10  | TSB 15nm MLC |

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

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