

PRODUCT BRIEF | M.2 SSD

M.2 SOLID STATE DRIVE

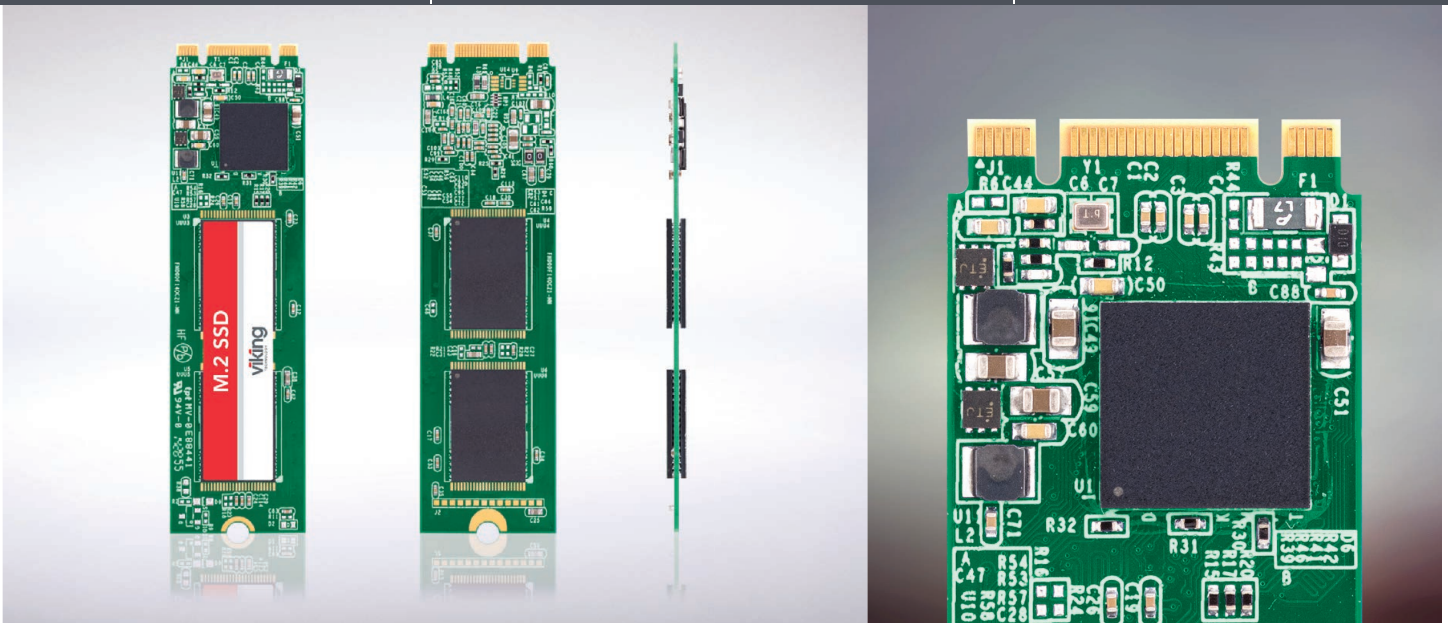
Viking Technology's M.2 Solid State Drive (SSD) is a high-performance, high-capacity flash solution optimized for the embedded and server market. The M.2 SSD is a caseless drive with either a SATA or PCIe/NVMe connector; delivering high-bandwidth READs and WRITEs at a fraction of the size of a standard 2.5 inch SSD. The thin form factor comes in a variety of sizes for the best fit to the customer's system requirements.

FEATURES

- ▶ Data path protection, Encryption, Max Write performance
- ▶ Ultra high-performance
- ▶ Advanced SSD-Specific SMART command support
- ▶ Low & High capacity form factor options

APPLICATIONS SERVED

Client & Enterprise controller options	Toshiba & Micron MLC	Form factor options: 22mm x 110mm/80mm/60mm/42mm
Power fail protection	Enhanced & Ruggedized storage	Samsung Controller & V-NAND



M.2 SOLID STATE DRIVE

CAPACITY	
MLC	Up to 1TB
PERFORMANCE	
Random Read	Up to 430,000 IOPS
Sequential Read	2,100MB/s
Sequential Write	1,400MB/s
Interface	SATA 6GB/s or PCIe Gen3/NVMe
RELIABILITY	
Endurance (SLC)	10 DWPD
Endurance (cMLC)	1-3 DWPD

ENVIRONMENTAL	
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)
Altitude	80,000 ft
Humidity	10% to 80% (operating)
Safety/Agency/Compliance	FCC, CE, TUV
POWER	
Active (Typical)	<2W
DIMENSIONS	
22mm x 42, 60, 80, 110mm	

M.2 PART NUMBERS

FORM FACTOR	INTERFACE	TEMP	CAPACITY	P/N	CONTROLLER	NAND
M.2 PCIe	2280	0°C to +70°C	2000GB	VWFNP5002T2ELWW4	WD	TSB BiCS 3D
M.2 PCIe	2280	0°C to +70°C	1000GB	VWFNP5001T2EFWW3	WD	TSB BiCS 3D
M.2 PCIe	2280	0°C to +70°C	512GB	VWFNP3512G2CFWWW3	WD	TSB BiCS 3D
M.2 PCIe	2280	-40°C to +85°C	1920GB	VRFNP51T92JILWW4	SM2262	TSB BiCS 3D
M.2 PCIe	110mm	0°C to +70°C	960GB	VSFNP7960GHC4WSA	Samsung	Samsung
M.2 PCIe	110mm	0°C to +70°C	3840GB	VSFNP73T84HC8WSA	Samsung	Samsung
M.2 PCIe	110mm	0°C to +70°C	1920GB	VSFNP71T92HC8WSA	Samsung	Samsung
M.2 PCIe	2242	-40°C to +85°C	960GB	VRFNP6960GKI4WT3	SM2263XT	TSB BiCS 3D
M.2 PCIe	2242	0°C to +70°C	960GB	VRFNP6960GKC4WT3	SM2263XT	TSB BiCS 3D
M.2 PCIe	2242	-40°C to +85°C	480GB	VRFNP6480GKIFWT3	SM2263XT	TSB BiCS 3D
M.2 PCIe	2242	0°C to +70°C	480GB	VRFNP6480GKCFWT3	SM2263XT	TSB BiCS 3D
M.2 PCIe	2280	0°C to +70°C	120GB	VRFNP5120GKC5WT3	WD	TSB BiCS 3D
M.2 PCIe	2280	-40°C to +85°C	60GB	VRFNP5060GKI5WT3	WD	TSB BiCS 3D
M.2 PCIe	2280	0°C to +70°C	60GB	VRFNP5060GKC5WT3	WD	TSB BiCS 3D
M.2 SATA	2280	0°C to +70°C	512GB	VWFEM5512G2CHWW3	SM2259	TSB BiCS 3D
M.2 SATA	2280	0°C to +70°C	256GB	VWFEM5256G2C5WW3	SM2259	TSB BiCS 3D
M.2 SATA	2280	0°C to +70°C	1000GB	VWFEM5001T2CFWW3	SM2259	TSB BiCS 3D
M.2 SATA	2242	-40°C to +85°C	480GB	VRFEM6480GEIFWT3	SM2259	TSB BiCS 3D

For a full list of M.2 part numbers please contact sales@vikingtechnology.com or visit our website.



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