

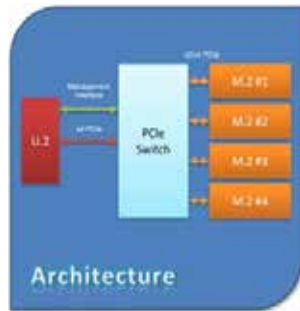
PRODUCT BRIEF | U.2 NVMe SSD M.2 Carrier High Performance Solid State NVMe Storage Drive

U20040

The Viking Enterprise Solutions (VES) U20040 U.2 NVMe SSD is an EIA/ECA-720 standard 2.5" drive form factor supporting 4 x PCIe Gen 3 NVMe M.2 SSDs. It is designed to provide extremely high read and write performance to the host over a x4 Lane PCIe Gen 3 U.2 connection. The use of M.2 drives provides a lower cost solution than equivalent U.2 drives with exceptional performance.

M.2 Drive Support

The carrier is designed to support VES certified M.2 modules in the 2280 or 22110 format. These drives are selected based on their exceptional performance and thermal behavior.



Safety Standards

- ▶ UL 60950
- ▶ CSA 22.2-950

Environment Protection

- ▶ RoHS & WEEE compliant



Drive Management

The drive can be managed in-band over the PCIe interface via the PCIe management driver. It can also be accessed via the SMBus interface on the U.2 connector (if available).

Data Available: Performance counters, U.2 drive temperatures, FRU information, M.2 VPD, M.2 temperatures, and M.2 SMART data can all be accessed using these interfaces.

Dual Port Mode

Dual porting of the drive is supported with a custom PCIe driver. This permits the partitioning of the M.2 drives between two CPUs and fail-over behavior.

Power Loss Protection

Enterprise level power loss protection is provided to permit in-flight data transactions to complete without any data loss.

Operating Environment

REQUIREMENT				Unit	Notes
Operating Temp.	Min.	0	Max.	TBD	°C
Non-Operating Temp.	Min.	TBD	Max.	TBD	°C
Non-Operating Humidity		TBD	TBD	%	
Airflow		400		LFM	Any direction
Non-Operating Shock		TBD		G	
Operating Shock		TBD		G _{RMS}	
Non-Operating Vibration		TBD		G _{RMS}	
Operating Vibration		TBD		G _{RMS}	