

PRODUCT BRIEF | Persistent Memory

VT-PM PERSISTENT MEMORY DRIVES

VT-PM drives, part of Viking’s persistent memory technology family of products, are 2.5” U.2 NVMe PCIe Gen3 drives optimized to Enterprise-grade with Radian Memory System’s architecture technology. The VT-PM8 and VT-PM16 are persistent memory drives that deliver performance and unlimited write endurance similar to that of DRAM, while simultaneously providing the data persistence desired for enterprise applications.

FEATURES

- ▶ 2.5” U.2 NVMe Drive form factor
- ▶ Lowest latency NVMe device regardless of queue depth
- ▶ Internal super-capacitor system fully contained in single drive
- ▶ NVMe (block) and byte addressable mmap access
- ▶ Dual Port 2x2 or Single Port x4 mode

Simple, reliable, persistent

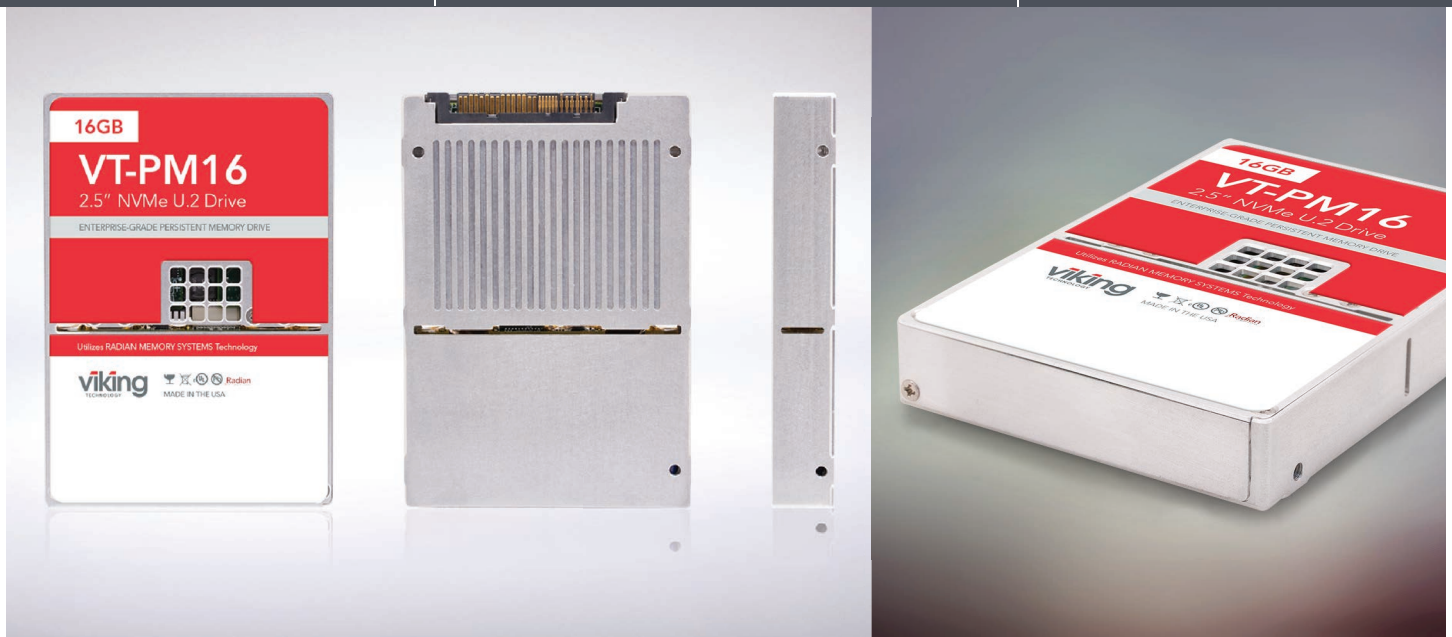
Supports the NVMe command set

Hot Swap, Live Insertion, Surprise Remove

No remote capacitor packs or cabling

Interface simplicity

OEM Lifecycle Monitoring Diagnostics



VT-PM PERSISTENT MEMORY DRIVES

| SPECIFICATIONS | |
|---------------------------------|--|
| Capacity | 16GB (8GB: VT-PM8) |
| U.2 2.5" NVMe form factor | Length: 100mm, Height: 15.0mm, Width: 69.75mm |
| Dual Port and Single Port Modes | Dual Port 2x2 lane configuration or Single Port x4 lane configuration |
| PCIe x4 Gen3 | Compliant with PCI-Sig PCIe 3.0 Base specification |
| NVMe Command Set | NVM Express specification 1.0 |
| NV-RAM Capacity | 8GB, 16GB based upon DDR4 at 2,400 MHz with internal power backup system |
| DRAM ECC | 64-bit data/8-bit ECC code detects double bit errors and corrects single bit errors |
| NAND ECC | Hardware LDPC engine |
| BIST and Health Monitoring | Provides OEMs the ability to monitor environmental status, component health, and log statistics for continuous product life cycle management |
| Power Requirements (+12V rail) | Typical Maximum: 13.5W at 40°C Recharge Cycle: Up to 17W at 40°C with concurrent r/w operations |
| Supercapacitor Recharge Time | 38 seconds |
| Temperature | Operating: 0° to 40°C at 100 LFM Storage: 40°C to 85°C |
| MTBF | 1M hours |

| PERFORMANCE | |
|---|----------------------|
| Throughput 128K reads/writes, single port x4 | Up to 6.3 GB/s |
| Throughput 128K reads/writes, sum of dual port x2 | Up to 5.7 GB/s |
| IOPS 4KiB 50% random reads/writes, single port x4 | Up to 1,232,679 IOPS |
| IOPS 4KiB 50% random reads/writes, single port x2 | Up to 1,346,000 IOPS |
| Latency | As low as 10 µs |



Utilizes Radian Memory Systems technology



| Global Locations | | |
|---|--|--|
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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.