ORANGE Series

Rugged 2.5" PATA SSD

OVERVIEW

The Parallel – ATA (PATA, aka IDE) interface was replaced by Serial-ATA (SATA) interface over the last decade. There are, however, some Industrial and Military systems that still use this interface today. The advantages are the maximum compatibility, high reliability of the PATA signal, robust connector suitable for harsh environments, and ability to ruggedize 2.5" form factor for the worst shock and vibration conditions. While the PATA standard limits the performance to 120MB/s and does not support hot-plugging, the overall end-to-end robustness of "deploy and forget" PATA drives make them often the last candidate for technology upgrades. The Memkor ORANGE PATA drives, consistently with current PATA deployments, are built using the most reliable SLC NAND memory.

Memkor ORANGE Series PATA SSDs are built upon a native modern PATA controller ensuring best interoperability, deployment flexibility and lowest power consumption, as compared to PATA drive solutions that rely on PATA-SATA bridge IC.

Memkor PATA SSDs are manufactured to the highest quality and reliability standards using carefully selected semiconductor devices and the most reliable SLC NAND flash memories. State of the art flash management techniques combined with a strong EDC/ECC/CRC and end-to-end data protection approach ensure performance stability and consistency, along with the highest reliability and unparalleled user data integrity.

Memkor PATA SSDs offer the same features as ORANGE Series SATA SSDs including hardware enabled write protect and data elimination, managed through the same control mechanisms.

Sudden power loss safeguards integrated in software and hardware ensure data protection and integrity.

ABOUT ORANGE SERIES

Memkor's 3rd generation Orange Series SSDs aim to provide the highest throughput performance combined with the highest capacities available in the standard form factors. They are built with high quality industrial grade NAND available today. The family supports SATA, PCIe/NVMe, USB, SAS or PATA interface.

SUMMARY

- ☐ Rugged 2.5" SFF-8223 form factor
- ☐ Parallel-ATA (PATA/IDE); ATA-7

VALUES

- ☐ Compatibility with old and new systems
- ☐ Most popular form factor
- ☐ More robust connector than SATA
- ☐ Excellent for extreme temperature operations
- ☐ High reliability components
- ☐ Each SSD thoroughly tested
- ☐ Locked BOM and obsolescence management
- ☐ Custom firmware and features when required
- ☐ 5 year/TBW warranty

FEATURES

- ☐ Up to 640 GB SLC NAND
- ☐ -40ºC to 85ºC Industrial/Military
- ☐ Maximum sustained Read/Write 120MB/s
- ☐ 16.3 g RMS 10-2000Hz / 50G 11 ms
- ☐ Secure Erase and Write Protect
- ☐ End-to-end data protection
- ☐ End-to-end operation monitoring
- ☐ Sudden power loss safeguards
- ☐ Standard conformal coating on Industrial/ Defense grade SSD

MEMKOR—PART OF YOUR PROJECT

- ☐ We will support your design process
- ☐ Each SSD undergoes ESS test
- ☐ We offer Locked BOM Management
- ☐ We offer obsolescence management

Memkor® is an American engineering company dedicated to providing flash solid state storage solutions for defense, industrial and enterprise applications. We create secure, reliable, robust and innovative solutions with rich feature sets, tailored, as required, to meet your technology investment objectives. We are dedicated to delivering on our promises. We simply believe that your satisfaction enables the continuous success of our company.

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