

BLACK Series

Extreme Ruggedization SSD's HiVibe[®] SATA Connector

OVERVIEW

Standard SATA connector is typically rated for 6 GRMS vibration level and 200 insertion cycles. The traditional approach to address these limitations requires development effort that results in extra hardware, cost and reduced reliability.

Memkor, in collaboration with Amphenol Aerospace, introduces a solution — HiVibe. Built on rugged Micro-Hyperboloid technology, a HiVibe SATA connector is rated for more than 30 GRMS and 20,000 insertion cycles. To facilitate HiVibe deployment and minimize the cost, computer board mating right-angle or vertical receptacles fit in the mounting footprint of the equivalent standard SATA connectors.

The HiVibe SATA interface is available as an option on any Memkor 2.5" SATA, either Orange, Blue, or Black Series SSDs.

With capacities of up to 16TB, including HW Write Protect, Secure Erase, AES256 Encryption, Sudden Power Loss Safeguard circuits and logic, and rugged HiVibe interface, Memkor provides a true Military grade non-volatile storage, at the same highest Capacity-to-weight and Capacity-to-volume solutions available for high speed and high capacity Data Recorders for Defense applications.

ABOUT BLACK SERIES

Memkor's 2nd generation BLACK Series SATA and PCIe SSDs combine innovative ruggedization strategy through mechanical design, manufacturing and assembly processes, built upon ORANGE and BLUE Series SSD architecture and capabilities. The BLACK Series drives are successfully deployed in applications where the most challenging shock and vibration are the norm. The BLACK series includes a standard form factor 2.5" SFF-8201 and also some proprietary, application specific fixed or removable storage solutions. The BLACK Series shares the security and functional features with the ORANGE and BLUE Series devices.



SUMMARY

- Rugged pin and socket connector
- Standard 7-pin Signal and 15-pin Power
- Supports SATA 6G speeds
- 20,000 mating cycles
- 30G RMS vibration

DEPLOYMENT FLEXIBILITY

- Same footprint as 3M SATA connectors
- Right Angle or Vertical on Host Computer

HiVibe VALUES

- Eliminates SATA connector vulnerability to shock and vibration
- Complements Memkor BLACK Series SSD ruggedization level
- High quality, impedance controlled contacts suitable for high speed signals
- Low insertion and extraction forces
- Resistant to fretting corrosion

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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