Dual
CompactFlash
drives

HOTBACKUP.
DUAL SCSI SOLID STATE DRIVE

The SCSIFlash2/PATAFlash2 HotBackup Drive uses two Compact Flash (CF) cards working as a synchronised pair to provide a host transparent backup capability. The HotBackup Drive is available in 50-pin, 68-pin and 80-pin variants supporting 2.5 inch, 3.5 inch or larger 5.25 inch form factors and operates with CF cards of up to 256gb capacity.

2.5 inch HotBackup Drive variant

OVERVIEW

Solid State Disks Ltd (SSD), the advanced storage systems design, development and integration specialist, has launched HotBackup, a solid state 'live host' backup solution ideally suited for use in process and mission critical legacy computer systems in a broad range of applications in the telecommunications, semiconductor manufacturing, industrial process control, engineering and manufacturing, oil and gas, mil/aero and media post-production industries.

Utilising twin Compact Flash cards, HotBackup is presented to the host system as a single logical drive. Its operation is transparent to the host and conducted as a background task entirely within the device itself. It enables the primary host addressable media to be backed up in background without interrupting the host connection or requiring the host system to be taken offline. HotBackup's firmware constantly monitors for updates to the primary drive and mirrors these to the secondary drive on-the-fly. In addition, the secondary CF card can be dismounted and removed from device and a new card inserted and synchronised without interruption to the host system.

HotBackup can be operated either using SSD's Recovery Manager software to control functionality from a remote location via a LAN connection or through a single push-button on the front of the device which is ideal for deployments where a LAN connection is either not possible or not allowed. HotBackup requires synchronisation every time a new CF card is inserted into the secondary drive, which is achieved by performing a block by block copy of the entire contents of the primary drive. The secondary drive CF card can be removed without interrupting the host connection or requiring the host to be taken offline. This provides several benefits/possibilities including the storage of backups in a safe location, the ability to clone other systems and the creation of multiple point-in-time backups.

HotBackup is available with either twin SSD SCSIFlash2 and PATAFlash2 drives in 50-pin, 68-pin and 80-pin variants supporting 2.5 inch, 3.5 inch or larger 5.25 inch form factors. It operates with CF cards of up to 256GB in capacity.

FEATURES

- HotBackup Drive is available in 2.5" 50 pin SCSI Solid State Drive / 3.5" 50 pin Narrow SCSI Solid State Drive / 3.5" 50 pin Narrow SCSI SSD Drive / 68 pin Wide, Wide Differential, Wide LVD SCSI Solid State Drive / 80 pin Wide, Wide LVD (8bit) SCSI Solid State Drive variants as well as 40-pin Parallel ATA (PATA/IDE)
- HotBackup Drive enables the two Compact Flash (CF) cards to work as a synchronised pair providing seamless backup capability.
- HotBackup Drive is presented to the host system as a single logical drive that will be continuously synchronised with secondary media.
- Allows one CF card to be removed or dismounted for backup over the Ethernet port, giving a full disk image backup without impacting its availability to the host.
- Board is low power, using 5V only, and has two dual colour LED indicators and a single pushbutton user interface.

For full bit for bit image backups, it also includes a remote dismount feature which operates independently from the control of the host system to enable any CF card in a mirrored pair to be taken offline with the minimum of operational interruption to the host.

- A bit for bit image can be restored to a CF card either by inserting a backup CF card or writing to a CF card over the Ethernet port.
- Small format PCB converts Compact Flash Media to appear as a SCSI device on a Host's SCSI bus.
- 2.5" form factor PCB which will replace any 2.5" disk drive or larger drives with customised housing.
- Will fit in a 3.5" or customised Disk slots.
- Allows the CF Cards up to 64GB (SLC) and 256GB (MLC) to attach to the SCSI bus.
- SCSI Host will typically see the device as a disk drive of any emulation.
- Board is low power, using 5V only, and has an optional add-on display and pushbutton user interface.
- Microcode is field upgradable via integral comport.
- Optional integration support available if required.

SPECIFICATIONS

Board size: 2.5" & 3.5" Form factor.

Compact Flash: Dual 3M header for Type 1 & 2 cards, Push button Ejector to remove CF.

CF Capacities Supported: ~ up to 256GB (MLC) for removable drive and non mission critical applications and up to 64GB (SLC) for fixed disk heavy read/write mission critical applications.

Power: 5 Volts only @ 0.8 Watt (Typical) + CF requirement.

Power connector: Standard Disk drive type SCSI-1 and 2 Compatible. 50 pin DIL 0.1" Connector.

SCSI transfer rate: 10Mbytes/second.

Display and real-time diagnostics.

RS232 Serial Port for microcode load and real time diagnostics.

The **SCSIFlash™** and **FLOPPYFlash™** are recognised Trademark of Solid State Disks Ltd.

ISO 9001:2015 CERTIFIED

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