



DESCRIPTION

The ESDIFlash is an integrated solution that utilizes proven ESDI drive architecture and industry-standard Compact Flash Card technology, providing a solid state, drop-in replacement for electro-mechanical hard drives.

The ESDIFlash is an industrial OEM grade solid state drive which allows Compact Flash (CF) cards of up to 128GB (host dependant) to be attached to a standard ESDI bus. It will be seen as an ESDI drive by the host computer. The ESDIFlash can emulate obsolete CDC 182MB Wren Hard Disk Drives and can be programmed to emulate other ESDI drive models and to suit varying host systems requirement.

The ESDIFlash PCB allows service providers & OEM's to have a quick, low-cost flash memory solution for their legacy system through our configurable firmware that matches legacy systems software.

The Enhanced Small Disk Interface (ESDI) was a disk interface designed in the early 1980s as an extension to the ST-412/506 interface. ESDI improved on ST-506 by moving the data separator into the drives themselves, and also generalised the control bus such that more kinds of devices (such as removable disks and tape drives) could be connected. ESDI was popular in the mid-to-late 1980s, when SCSI and IDE technologies were still young and immature. Many high-end SCSI drives of this era were actually high-end ESDI drives with SCSI bridges integrated on the drive.

Benefit

- Firmware controlled by ESDI interface is adaptable to hosts' software ESDI drivers
- Provides a transparent interface from the ESDI bus to solid state Flash media
- Eliminates the problems found in traditional electro-mechanical/magnetic media storage devices
- Fast, efficient field replacement
- Lower power consumption, noise and heat
- Fast write speeds
- Increased reliability
- Reduced unplanned downtime
- No additional software required for operation due to its ESDI data storage/bootable drive

FEATURES

- Small format PCB converts Compact Flash Media to appear as an ESDI device on a Host's ESDI bus
- 3.5" form factor PCB which will replace any 3.5" disk drive or larger drives with adaptor
- Will fit in a 3.5" disk slot using the same mountings
- ESDI Host will typically see the device as a disk drive of any emulation
- Emulated device characteristics can be adjusted to exactly match the host systems' requirements
- Board is low power, using 5V only
- Microcode is field upgradable via integral USB port

Solid State Disks Ltd manufacture, design & support sales of the SCSIFlash™ drive through our head office in Reading, United Kingdom.

The SCSIFlash™ is a recognised Trademark of Solid State Disks Ltd.



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SPECIFICATIONS



Form Factor:

3.5" form factor – 102mm (4") wide x 147mm (5.75") long x 25mm (1") high*

* Other form factor options are available

Compact Flash:

Standard 3M header for Type 1 & 2 cards

Power:

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

Power connector:

Standard ESDI 34-way and 20-way edge Control and Data connectors

ESDI transfer rate:

10Mbytes/second

USB and Serial Ports for microcode load and real time diagnostics

Ethernet capability

Master Image (.img) / mirroring capability

Example fixed disk emulations:

CDC 182MB Wren Hard Disk Drives

Other drive models can be emulated

Support covers the following Operating Systems:

Bull DPS6

Other Host systems can be supported



ESDIFlash™SDIFlash is also available as a 2 bay rackmount solution