SCSIFlash-Fast™

Solid-state upgrade for 3.5" and larger SCSI drives
SASI, SCSI-1, SCSI-2 and Ultra3
68-pin connector

Emulated Disk Sector Sizes

256 to 4096 bytes

DESCRIPTION

SCSIFlash-Fast is an industrial OEM-grade, solid-state, drop-in upgrade/replacement for electromechanical hard disk drives (HDDs). It uses proven SCSI drive architecture and industrial CFast and M.2 SSD memory.

With a read-write speed of up to 80MB/s and storage capacities ranging from 2GB to 1TB, SCSIFlash-Fast can be connected via its 68-pin connector to a regular SCSI bus.

SCSIFlash-Fast features configurable firmware that allows the OEMs of (or those responsible for maintaining) legacy systems to replace failing or obsolete drives.

At the point of order, SSDL will configure the drive to match the SCSI version of the host system (SASI, SCSI-1, SCSI-2 or Ultra3) and set the disk sector size to 256, 512, 768, 1024, 2048 or 4096. Other configurations can also be applied (and data preloaded). Accordingly, if SCSIFlash-Fast is being used to replace a failing/obsolete one, the host will treat the new drive as if it were the one it replaces.

But why not enhance the drive's capabilities? SCSIFlash-Fast can be fitted with an Ethernet port and controlled over a network using SSDL's Flash2GUI software making possible hot backups, system recovery and real-time diagnostics. SCSIFlash-Fast can also be customised with a display and buttons for local control purposes.

BENEFITS

- Improve the overall reliability of the host system and protect your operations.
- Solid-state means no moving parts, thus avoiding the weaknesses inherent in traditional electromechanical/magnetic media storage devices.
- Better performance and security.
- No changes needed to the host system.
- Minimal downtime for the changeover – out with old, in with the new.
- Reduced running costs thanks to lower power consumption.
- Quieter and less heat generated.
- Enhanced security through optional password protection and quick secure erase (data destruction).
- Potential to manage the new drive in ways that were just not possible with the one it replaces.

FEATURES

- Provides a transparent interface from the SCSI bus to solid state media.
- Firmware controlled SCSI interface is adaptable to host system's requirements.
- Small format PCBA allows SSD media to appear as a SCSI device on the host's SCSI bus.
- Automatic detection of narrow/wide and SE/LVD host operation.
- Support for SCSI Ultra-3 features.
- Removable or fixed CFast media option.
- SLC, MLC, TLC and 3D-NAND media options.
- Support for more than one SCSI address with a single unit.
- Support for multiple LUNs.
- Standard 3.5" form factor which will fit in a 3.5" disk slot using the same mountings.
- Larger form factors supported using adapters.
- Emulated device characteristics can be adjusted to match exactly.

SPECIFICATIONS

Form factor: Industry standard 3.5" disk drive form factor, with expansion trays to enable larger form factors to be supported.

Dimensions: 3.5" form factor is 102 x 147 x 25mm (W x L x H).

Storage capacity: 2GB to 1TB.

Data transfer rate: Up to 80Megabytes per second (MB/s) for both read and write operations.

Supported buses: Narrow (8-bit), wide (16-bit), single-ended (SE) or low voltage differential (LVD).

Storage media: Industrial CFast and M.2 SSDs.
SLC, MLC, TLC and 3D-NAND technologies are available.

Power: SCSIFlash-Fast needs a 5VDC supply and will draw just 0.8W Additional power will be drawn depending on the storage type fitted *Please contact for advice on what that draw is likely to be.*

Power connector: Standard HDD 4-pin power connector.

SCSI mechanical interface: Standard SCSI compatible 68-pin connector. *Note: SCSIFlash-Fast will autoconfigure for 8/16-bit or SE/LVD operation.*

Additional connectivity: USB and serial ports for microcode load and configuration.

Optional connectivity: Ethernet.

Other capabilities: Master image / mirroring.

Example* drives: SCSI-Flash-Fast can be used to replace many of the HDDs made in 1980s/90s/00s by: Acard, Adtron, Bitmicro, Compaq, Conner, DEC, Fujitsu, Hitachi, HP, IBM, Maxtor, M-Systems, Micropolis, NEC, Quantum, Seagate, Sequel, Siemens Nixdorf, Smart Modular, Toshiba and Western Digital.

Example* host systems: SCSIFlash-Fast can be used with Alcatel S12 & 1631, Alcatel-Lucent DACS VAX, Applied Materials (AMAT), Cannon, DEC VAX, Evans & Sutherland, Honeywell Measurex, HP 9000 series 800, HP 9000 series 500, HP 9000 series 300, MX-OPEN, Siemens EWSD and Sun Spark.

Host operating systems: HP-UX, HP-RTE, HPL, VMS, IRMx, OS/400, GCOS, BOSS, VXworks, OS2, DEC VMS, RSTS, OSF, MXopen system QCs and UNIX.

* These are just a few examples. Please contact us if the drive or host system you are looking for is not listed.

SOLID STATE DISKS

Dependable Data Storage Solutions

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