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FLOPPYFlash™

FLOPPYFlash™ Emulator to replace legacy floppy disk drives, using removable Compact Flash to replace the floppy disk media

Network (Ethernet) enabled

The FLOPPYFlash™ will replace
3.5", 5.25" or 8" Drives

DESCRIPTION

The FLOPPYFlash™ is an industrial grade, programmable hardware emulator that uses standard industrial Compact Flash card technology to provide a solid state, drop-in replacement for obsolete electromechanical floppy disk drives. The FLOPPYFlash™ will replace 3.5", 5.25" or 8" drives, both soft and hard sectored and may be set to operate at various data rates with the matching data encoding schemes, FM, MFM, or MMFM. Similarly, the emulated track configuration is programmable.

The FLOPPYFlash™ product allows OEMS and service providers to have a quick, cost efficient solution to support their legacy system. The product's configurable firmware allows a perfect host match, eliminating the need for any host hardware or software changes.

Network back-up and restore capability enables vital data back-ups to be made as a complete image of its CompactFlash card and transferred via an Ethernet network to be stored remotely from the legacy equipment and restored as and if needed. Universal TCP is used for disk image transfers with remote execution of back-up and restore configuration operations controlled by SSDL API.

Benefits
• Host hardware and software compatible.
• Fast efficient field replacement.
• Lower power consumption, noise and heat.
• Reduction in unplanned downtime.
• Fast recovery crash or CPU fail.
• Provides ability to extract image and store folders on a PC.
• Significantly faster browsing of directories such as old message logs, change logs and file recipes.
• Network enabled FLOPPYFlash™ drive has its own IP address (configurable)*.
• Network enabled FLOPPYFlash™ allows bit for bit image (.img) backup & restore direct to LAN*.
• Provides ability to import & move files between hosts systems / tools easily*.
• SCSIFlash™ proprietary API software drive offers the ability to edit backed (.img) files on a PC, add / remove files, repack, and transfer back to the host via the FLOPPYFlash™ drive*.

  Network drive

FEATURES

• Small footprint (3.5") allows replacement of any 3.5" floppy drive, or any larger drive with a suitable adaptor. FLOPPYFlash™ will fit in any standard floppy drive slot using the same fixings.
• Requires a single 5 Volt power supply.
• Firmware is field ungradable via integral USB port.
• Optional integration support, as required.
• Greatly increased reliability (MTBF) and media life.

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

SPECIFICATIONS

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

Compact Flash Connection:
Standard 3M header, with ejector, for Type 1 and 2 cards.

Power Requirement:
5 Volts only @ 0.8 Watts (Typical), with CF fitted. Connector matches floppy drive emulated.

Data Connection:
Data cable connection is normally made to a 34 pin standard floppy edge connector at the rear of the FLOPPYFlash™ circuit board.

Data Transfer Rate:
125kb/s to 500kb/s (Note: Data rate is linked to the coding method selected).

USB Port:
Used for microcode load and real time diagnostics. The drive is programmable so firmware can be updated real time with SSDL technical support team.

Standard Floppy Drive Emulations:
• Shugart Associates SA450™ 5.25"
• Shugart Associates SA850™ 8"
• 40MB Wangtec FAD5000™ *
• Cipher 525 floppy Tape™ *

Others;
ALPS ELECTRIC, CHINON, CITIZEN , EPSON, NEWTRONICS, MITSUMI, NEC, MATSUSHITA, PANASONIC, SAMSUNG, SFD, SONY, TANDON, TEAC, YE DATA

*Note that these 5.25" legacy products use a cartridge tape as the storage media and are themselves floppy drive emulators for the Shugart™ floppy drives.

Note that the product names are the trademarks of the companies listed.

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