



## **SCSIFlash-2 ( SF2, and SF2R)/ CF2SCSI drive emulator**

### **QUICKSTART MANUAL**

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Full manual available. Please contact the SCSIFlash Product Support Team on (+44) 01189 323499 or email [support@reactivegroup.com](mailto:support@reactivegroup.com)

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## **Overview**

The SCSIFLASH emulator is a general purpose SCSI bridge for a Compact Flash (CF) Card.

An Industrial CF card for HDD or Commercial CF for other applications is plugged into the CF socket on the PCB. This is presented as a standard SCSI disk to a SCSI Host via the 50 pin connector SCSI interface (68 pin devices can be connected with use of an adaptor).

The PCB mounts in a standard 3.5" form factor tray. It requires 5V only which is supplied via a standard disk power connector.

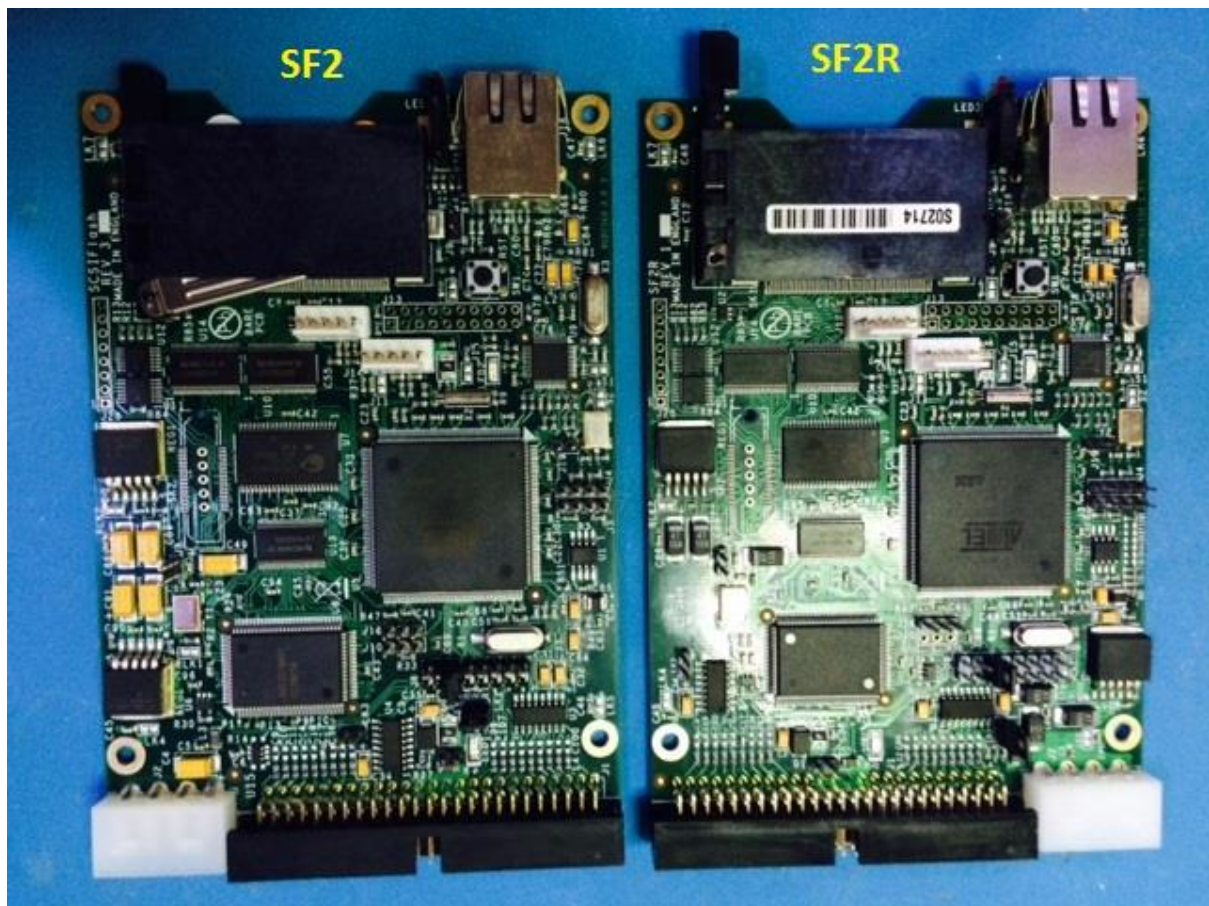
When connected to a SCSI Host, the Host sees the SCSIFLASH as a standard SCSI device.

Use of the Ethernet Port is for use with the FTP feature for Data Backup and restore to a Server or dedicated PC. This is a separate & upgradeable option.

Note the picture shows REV 3 PCB the SF2R is now REV 6, and J10 connectors are incorporated in the REV 6 Etch.

Do not fit Jumpers to J16, otherwise flash will be erased and can only be restored at the factory

Tray 11R is used for HDD emulations and 2X is used for MO emulations

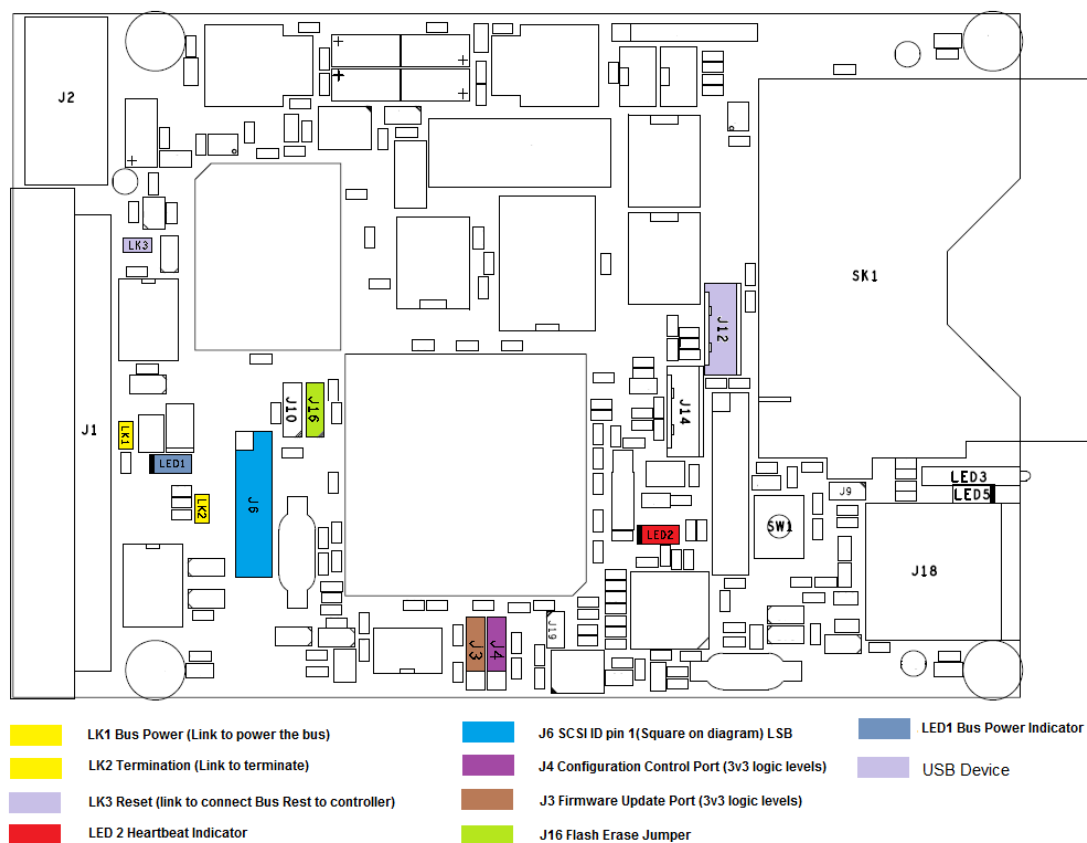


## **Main Features**

- 3.5 inch form factor
- Standard 50 pin SCSI1/2 interface, or 68 pin with use of adaptor
- 10 Mbytes/sec SCSI burst rate
- Internal active SCSI termination, disabled/enabled by jumper
- Optional HVD SCSI interface
- Various emulations available - SCSI2/SCSI1 or SASI
- Can emulate a standard SCSI device
- The SCSIFlash-2 PCB carries its microcode in Flash that can be simply updated

## **Setting Up**

- SCSIFLASH PCB



## Jumpers and Links

- J1 50 Pins SCSI connector
- J2 5 Volt Power connector
- SK1 CF Adaptor
- J3 System Port,
- LK1 External Bus Power Link,
- LK2 Termination link, link to terminate SCSI bus
- LK3 Reset link to connect RST to RSTC (default not connected)
- J6 SCSI ID jumpers pin 1 LSB. (Pin 1 end is square in diagram)
- J12 System USB Port
- J4 User Serial Com port
- J16 Firmware reset (pin 1&2)
- J10 Reset jumper only used on REV 3 PCB's, not used on other PCB's

## **Installation Steps**

- To enable termination of SCSI bus – Fit jumper to LK2
- Connect the SCSI cable
  - Note that pin 1 of the cable is at the edge of the PCB
- Connect the 5V power. Note that a standard 5V/12V disk power lead can be used here as the 12V pin is a no-connect on the board.
- Insertion of CF card
  - The front panel green LED 3 will flash if no CF card is inserted, it will stop when a CF card is inserted.
  - For HDD emulations the CF should be inserted before powering up both the unit and Host. The CF Green LED 3 will not flash when inserted. If it continues to flash then the CF you are using is not compatible with the SCSIFLASH-2 device.

## **Setting the SCSI ID – J6 jumper settings**

To change the SCSI ID you must move the jumper locations on the J6 PINS. Looking at the board with the CF card facing you, ID 1 is set by joining starts on the right of the J6 PINS. To set ID 2 place jumper on the second set of pins (again from the right). Set the SCSI ID on the SCSIFLASH-2 to the same as the drive you are removing.

ID 0 = No Jumpers	: : : : : :
ID 1 = 1 set	: : : : : [:]
ID 2 = 2 set	: : : : : [:] :
ID 3 = 1 & 2 set	: : : : : [:][:]
ID 4 = 3 set	: : : : : [:] :
ID 5 = 1 & 3 set	: : : : : [:] [:]
ID 6 = 2 & 3 set	: : : : : [:][:]
ID 7 = 1, 2 & 3 set	: : : : : [:][:][:]

## **Configuration**

A number of user accessible configurations options are available, some are system status reporting and diagnostic options.

These features are accessed via the USER Serial port of the SCSIFLASH-2 Board - J4. This feature is useful to gain insight into unexpected operating system exceptions, or to change emulations which are available in the menu.

## **Fitting**

Only use M3x6mm screws, using a torque screw driver when able, to fit the tray into its respective host system.