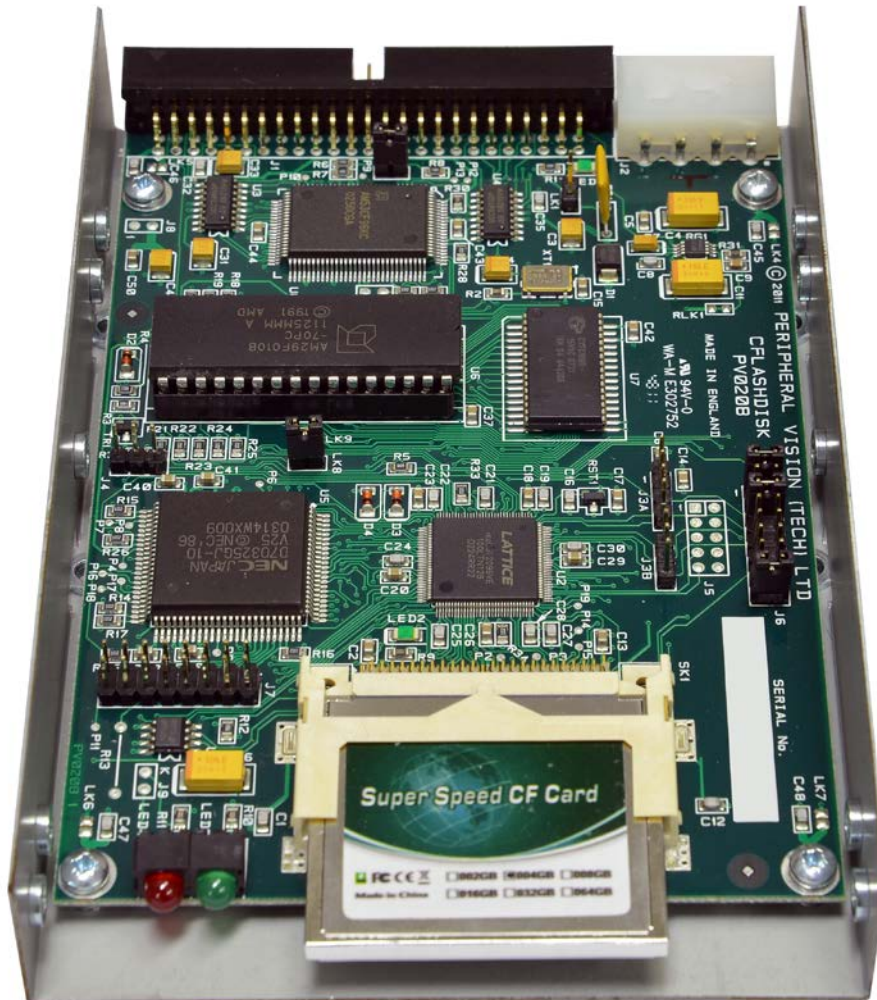




# WESTERN PROCESS COMPUTERS, INC.

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## CFHDS - SCSI Hard Drive Replacement User Guide



## Contents

- CFHDS (SCSI) Hard drive replacement for 1.8Gb or 875Mb single drive.
- 4GB SLC Industrial Grade CF (compact flash) card.
- 12” Molex 5V Power Extension cable.

## Features

- 3.5 inch form factor
- Standard 50 pin SCSI1/2 interface
- 10 Mbytes/sec SCSI burst rate
- Internal active SCSI termination, disabled /enabled by jumper
- Spare certified CF cards are available through Western Process Computers.

## Jumper Settings

- Termination is enabled with jumper LK2. The last device on your SCSI cable must be terminated. When a jumper is present on LK2, SCSI termination is ENABLED
- Jumper LK1 implements the export of termination power. Note: Internal terminators always have power.
- Jumper J6 sets the SCSI ID and enables/disables the serial port. For the CFHDS application, you may ignore the serial port.
- The CFHDS is formatted to replace ST32272N (1.8gb or 875mb) ST31230N (875mb) and can also replace ST3600N (445mb) single drive configuration.

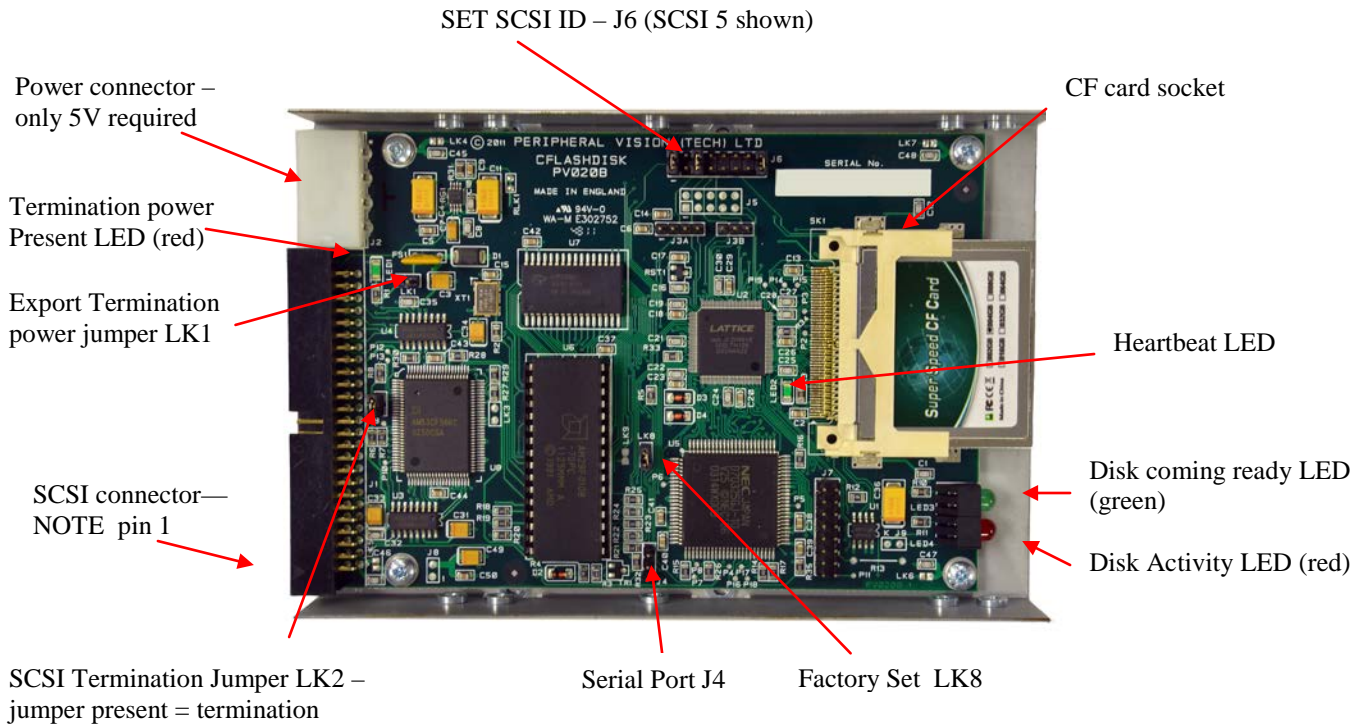
## Connections

- Connect the SCSI cable – Note that pin 1 of the cable is at the edge of the PCB, away from the power connector.
- Connect the 5V power using the Molex power extension provided. Note that a standard 5V/12V disk power lead can be used here as the 12V pin is a no-connect on the board.
- The PCB mounts in the standard 3.5” form factor tray. It requires 5V supplied via a standard Molex 4 pin disk power connector.
- CFHDS mounts with the same hardware using the 50pin SCSI cable, no adaptor required. Make sure the SCSI address and correct termination is maintained, either drive or cable end.

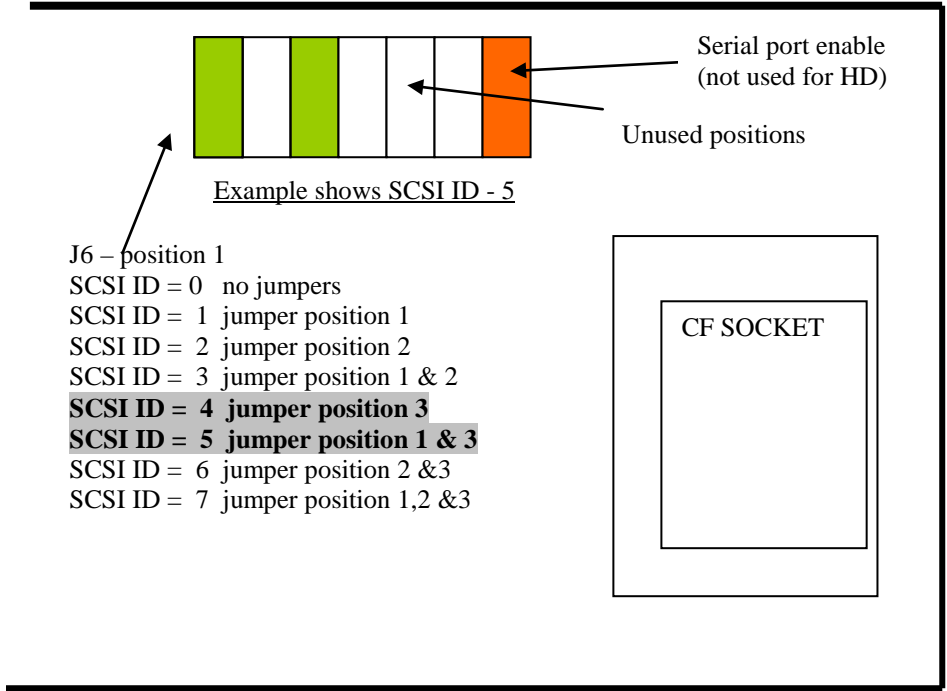
## Operation

- The front panel **GREEN LED** will flash if the CF card is not inserted. The green heartbeat LED will flash while power is applied. The **RED LED** indicates drive access.
- The CFHDS will replace the standard (Seagate) Honeywell drive and is pre-formatted to be installed and “synched” to the customers History Module.
- CF Chips must be pre-formatted using Honeywell HVTS prior to Synch procedure.
- The SPC card must be HW- “D” or greater, FW- “H” or greater.

# CFHDS Layout



- Set the SCSI ID as required at J6



**NOTE:** Honeywell uses SCSI addresses 4 & 5 for the physical addressing of the hard drives. Make sure replacement drive is addressed accordingly.

## CFHD SYNCH

Install drive tray and power on the new drive. HM will indicate “severe” status.

Wait for the HM to indicate it sees the new DRIVE(s) by viewing the HM STATUS DETAIL, select DISK DRIVE 5 (line), and select the target “View Object Detail”.

On the right side, make sure there is a status of something other than a message indicating it is not available. Status of “not initialized” appears in red text. This status can also be checked after the start of the “synch” process to verify initialization progress per volume.

Go to the COMMAND PROCESSOR

In the next step, I am assuming you are replacing drive 4 using LCN HM node # 32

Type:

OFFLINE PN:32 4

Wait a few minutes. You can check the HM status with command: STATUS PN:32  
Drives 4 should show OFFLINE.

Type SYNCH PN:32

Type STATUS PN:32

Drive 4 - SYN\_IP  
Drive 5 - OK

\* Regarding SYN\_IP (synchronization in progress), note that the Synch operation for redundant or dual redundant drives can last for an hour or more depending on the amount of history configured for this HM.

### **Installation:**

Use M3x3mm screws (and no longer) to install on the tray.

### **Maintenance:**

Due to memory cycle limitations of CompactFlash, WPC recommends replacement and re-synchronization of the CF card every 5 years. Chip manufacturers can change code, we also recommend additional certified media be ordered from WPC.



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