WESTERN PROCESS COMPUTERS, INC.
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CFZE2GB Zip Emulator
User Guide

Contents

- CFZE2GB Zip drive emulator - includes mounting tray assembly.
- 4GB Industrial Grade CF (type 1 compact flash) card
- 12” Molex (4pin) male/female extension.
- User Guide

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 installed
- WPC offers certified spare Industrial Grade SLC CF cards
- Due to CF chip manufacturer changes we recommend purchasing spare chip from WPC.

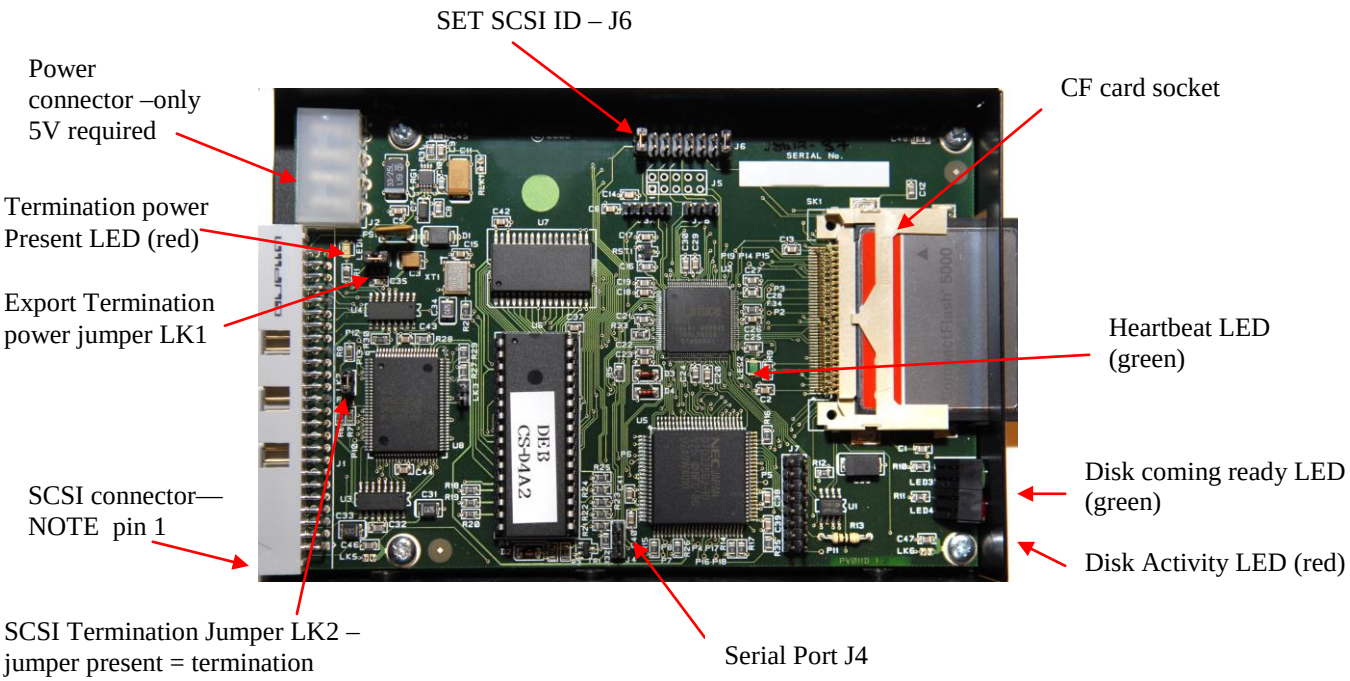
Jumper Settings

- Termination is enabled with jumper LK2. The last device on your SCSI cable must be terminated. If you are replacing a Zip drive, configure the CF Zip for the same termination setting as the Zip drive being removed. For a Honeywell Universal Station with two Zip drives (or a Zip drive and a CF Zip) attached to the EPDG I/O card, one drive will be terminated, the other will not. When a jumper is present on LK2, SCSI termination is ENABLED.
- Jumper LK1 implements the export of termination power. This is not required with media on a Honeywell US. Note: Internal terminators always have power.
- Jumper J6 sets the SCSI ID and enables/disables the serial port. For the CF Zip application, you may ignore the serial port. The SCSI ID of Zip drives on a Honeywell Universal Station is normally either 0 (no jumper on position 1) or 1 (jumper in place on position 1). When replacing a Zip drive, set the SCSI ID to be the same as the Zip drive you are replacing. (Note: The SCSI ID is NOT related to the Honeywell, software assigned, device ID for a Zip or cartridge drive, $Fn).

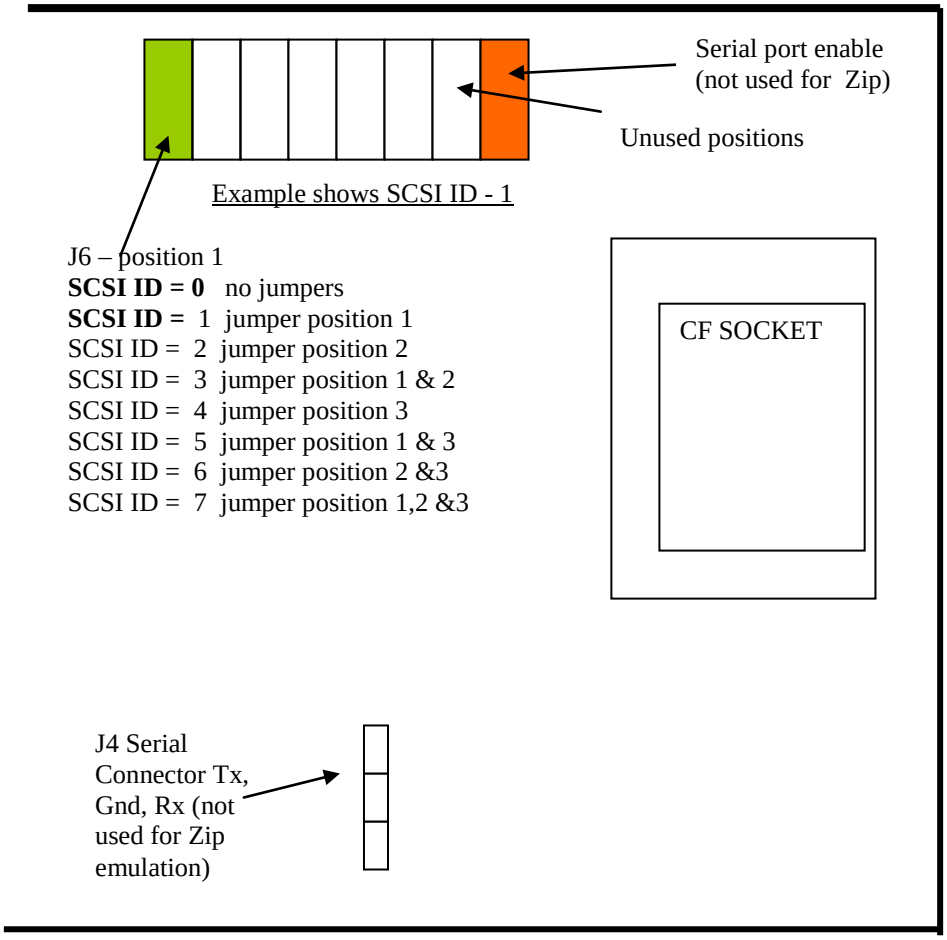
Connections

- 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. 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 front panel GREEN LED will briefly flash when the CF card is being initialized and continually flash while the CF card is removed. The green heartbeat LED will flash while power is applied. The RED LED will flash when accessing the drive.
- The CF Zip emulator will replace the standard Honeywell Zip drive mounting with the same hardware. Make sure the SCSI address ID and correct termination is maintained.
- The PCB mounts in the standard 3.5” form factor tray. It requires 5V supplied via a standard Molex 4 pin disk power connector.

CFZE2GB Layout



- Set the SCSI ID as required at J6



Initialization and Backup

- If your backup or storage application will not require more than 63 directories, you may use the "Removable Media Initialization" target from the System Menu to initialize the CF card. No file descriptors will be applied.

  For a backup requiring more than 63 directories, use the Command Processor CR (Create Volume) command and the –X (extended directory) option to initialize the CF card. This option is available for systems running R510 and above. The -X option increases the directory limit to 2046 for BACKUP and RESTORE of a History Module. The Create Volume command for more than 63 directories could look something like this:

  CR $Fn>VOLM> -FMT –MF 30000 –BS 600 -FD –X

  When using the BACKUP command to back up the History Module to a single CF card (after initializing with the –X option), answer NO when prompted about initializing the cartridge. A single 4GB CF card can easily back up an entire 1.8GB History Module drive with up to 2046 directories. The History Module backup command is:

  BACKUP PN:nn $Fn Where nn = node address of the HM, and n = your removable media (CF Zip).

CAUTION:
You cannot increase the maximum number of files, if you should need them later, without destroying all of the data on the cartridge or chip. It is better to specify a number somewhat greater than your estimated needs (limit 32,767).

- Use dual setup, one Zip drive and one CF Zip drive to back up and copy current Zip cartridges. Use Command Processor "FCOPY" procedure, i.e. (FCOPY $Fn $Fn)

Installation:

Use M3x3mm screws (and no longer) to install 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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