

Using the Z67-IDE Utilities

With the serial cable connected to the Z67-IDE and connected to your PC running the Dallas Semiconductor MTK2 application (or a terminal program) running at 9600 baud, 8 data bits, no parity and 1 stop bit, powering on the Z67-IDE will send a data report to the PC terminal. For the Z67-IDE+, one **MUST** use the MTK2 utility. The end of this report is shown below to document the use of the Z67-IDE Utilities Menu.

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Z67-IDE Menu disabled. Use the **ESC** key to enable Z67-IDE Menu.

Target ID: 1 Z67-IDE DISK CONTROLLER
Product revision level: V 1.0 - 10/31/2012

Switch Selection: #00 position.

Virtual Disk #00 mounted.

Hard Drive 0 is not write protected
Hard Drive 1 is write protected

Z67-IDE Controller Ready to transfer data to/from IDE Drive 0 or Drive 1.

----- end of diagnostic report -----

Z67-IDE Utilities

WARNING: The CF Cards can be damaged or destroyed by improper shutdown during certain operations. Improper shutdown can corrupt the CF card vendor information rendering the card unusable.

1. Never power down the Z67-IDE while in the process of **replicating or imaging** a CF card. To stop the replication or imaging process, first **Write Protect the destination CF card** to abort the process. This can be verified by observing the Read/Write LED is **OFF**. Then power off the Z67-IDE.
2. Never power down the Z67-IDE while running **HDOS PREP67**. To stop the PREP67 process, first press "**CONTROL-C**" or the "**BREAK**" key to abort **PREP67** processing. This can be verified by observing the Read/Write LED is **OFF**. Then power off the Z67-IDE.

<**ESC**> pressed to activate menu . . .

Z67-IDE Manager Menu

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- a. Start Replication on Drive 0
- b. Start Replication on Drive 1
- c. Image from Drive 0 to Drive 1
- d. Image from Drive 1 to Drive 0
- e. Display Drive Selection
- f. Display Write Protect Switch Status
- g. Test IDE Buffer RAM - 512 bytes
- h. Display Drive 0 HDOS Partition
- i. Display Drive 0 CP/M Partition
- j. Display Drive 1 CP/M Partition
- k. Pinout Wiring Test Utility
- l. Exit

Please enter a Command: a

Drive Replication in progress. Please wait!

Virtual Disk #01 completed.
Virtual Disk #02 completed.
Virtual Disk #03 completed.
Virtual Disk #04 completed.
Virtual Disk #05 completed.
Virtual Disk #06 completed.
Virtual Disk #07 completed.
Virtual Disk #08 completed.
Virtual Disk #09 completed.
Virtual Disk #10 completed.
Virtual Disk #11 completed.
Virtual Disk #12 completed.
Virtual Disk #13 completed.

Replication completed.

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Note that in the above run (option a), we were replicating HD0.

In the opening diagnostic report we can see that Write-Protect switch for HD0 is **OFF**, the Write-Protect switch for HD1 is **ON**, the System Selector is on System 00, so the contents of System 00 will be copied to the end of the CF card storage. For a 2 GB CF card, this will generate 14 copies of system 00 to System 1 through System 14 and you will now have 15 identical boot systems (0 - 14 System Selector Switch settings). Notice that instead of reporting Virtual Disk #14 Completed, it simply states "Replication completed." The process will take approximately ten hours.

If the switch is **set** to a number higher than 0, the process will copy the partition (number - 1) to the set # partition to the end of the CF card storage.

Replicating HD1 is identical except you would **Write Protect HD0** just to be safe. Write Protect is **OFF** for HD1.

When using the imaging functions, c - Image HD0 to HD1 or d - Image HD1 to HD0, the **source** Write-Protect switch is **ON** and the **destination** Write-Protect switch is **OFF**. The terminal program on the PC will display the progress bar shown below. The process will take approximately ten hours. The meaning of the display is: (the red text is added)

Imaging 2 GB CF Card: 15 dots = 25%
 30 dots = 50%
 45 dots = 75%

The last dot doesn't print, but you get the message below the dots.

Terminal display on PC during imaging of HD0 to HD1:

Imaging Master Hard Drive to Slave Hard Drive - Process in progress!!

.....
-----|-----|-----|-----| (red text added)
 25 50 75 100%

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The remaining functions are either self-explanatory or used for hardware testing and diagnostics.