

## Using the Z67-IDE Utilities

With the three-wire 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. The end of this report is shown below to provide the screens 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.

----- 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. The 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 to System 1 through System 14 and you will now have 15 identical boot systems (0 - 14 System Switch settings). Notice that instead of reporting Virtual Disk #14 Completed, it simply states "Replication completed." The process will take approximately ten hours.

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:

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

.....  
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          25          50          75          100%  
Z67-IDE Menu disabled. Use the ESC key to enable Z67-IDE Menu.

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