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DiskOnChip® PCI Evaluation Board

The DiskOnChip PCI Evaluation Board (EVB) provides a convenient way to work with DiskOnChip in PCI environments. You may use the EVB to debug and integrate your code prior to platform availability. It may also be used as a PCI flash disk.

Supported Devices

The DiskOnChip PCI EVB supports the following DiskOnChip products:

- DiskOnChip Millennium Plus
- Mobile DiskOnChip
- DiskOnChip 2000 TSOP
- DiskOnChip Millennium
- DiskOnChip 2000 DIP
- DiskOnChip DIMM2000

1 Installing the DiskOnChip PCI EVB (DOS Example)

1. Mount DiskOnChip(s) on the EVB in the appropriate socket (SODIMM, DIP, TSOP).
2. Insert the EVB into a free PCI slot (make sure your host is powered OFF).
3. Power ON your computer (host). The EVB can now be accessed as an additional drive.

   Note: Ensure that your TSOP device is formatted before proceeding to step 2 (refer to the *DiskOnChip Software Utilities Manual* on our website).

   Note: When using other operating systems, you may need to first install the DiskOnChip driver (see the DiskOnChip OS-specific installation manuals).

2 Booting from the DiskOnChip PCI EVB (DOS Example)

1. Copy your system files onto DiskOnChip by typing **FORMAT D: /S** or **SYS D:** (assuming DiskOnChip is registered as drive [D:]).
2. Remove your hard drive or type **DFORMAT D: (or /WIN:segment) /FIRST /S:DOCnn.EXB /NOFORMAT**. Observe the following rules:
   - The /FIRST flag must be used in conjunction with the /S flag.
   - The /NOFORMAT flag instructs DFORMAT to update the firmware without reformatting the flash media, keeping the information on it intact (such as the DOS systems files).
3. Reboot the system. After rebooting, DiskOnChip is identified as drive [C:].

3 Configuring the DiskOnChip PCI EVB

3.1 Selecting the Base Memory Address

The DiskOnChip PCI EVB supports up to four DiskOnChips in parallel, each residing at a separate memory address.

DiskOnChip Memory Table – Jumper 1 (J1)

Device Type	J1, Pins 1 & 2 (U8)	J1, Pins 2 & 3 (U9)
TSOP-I	C800	D000
TSOP-II	CA00	D200
DIP	CC00	D400
DIMM	CE00	D600

3.2 Voltage Selection

Use Jumper J6 to select the voltage to be supplied to the DIP and SODIMM sockets.

Note: The TSOP sockets are 3.3V only!

Selecting Operating Voltage – Jumper 6 (J6)

Jumper	Pins 1 & 2	Pins 2 & 3 (Default)
J6	5V	3.3V

3.3 Additional Configurations

Jumpers for Additional Configurations

Jumper	Function	OFF	ON
J2	Lock# pin (Millennium Plus only)	No (default)	Active
J3	IF_CFG pin (Millennium Plus only)	16-bit (default)	8-bit
J5	IF_CFG pin (Millennium Plus - DIMM)	16-bit	8-bit (default)
J16	TSOP-II socket	Active (default)	Disabled
J17	TSOP-I socket	Active (default)	Disabled

4 Troubleshooting and Additional Information

Item	Action
The EVB is not recognized.	Ensure that DiskOnChip is formatted.
	Another device may be using the same memory window. Remove any unnecessary cards and check your BIOS configuration.
	Another device may be using the same memory window. Change the base memory address of the DiskOnChip using J1.
	Is the driver loaded? When using OSs other then DOS, follow the DiskOnChip installation instructions for your specific OS.
	Make sure pin 1 of DiskOnChip is aligned with the Pin 1 pad on the board. Reverse insertion will render DiskOnChip unusable.
	The DiskOnChip firmware may need to be trimmed to work with your BIOS. Please refer to the DiskOnChip software tools manual and read about the various firmware flags in DFORMAT.
I want to disable TSOP devices soldered onto the EVB without removing them.	Use J16 and J17 to disable any TSOP-I and TSOP-II devices soldered onto the EVB.
Additional tools and information.	Extensive DiskOnChip software accessories, and DiskOnChip documentation, can be found on our website and in the enclosed DATA CD.

5 Technical Specifications

DiskOnChip Bus Width	8-bit: DIP, TSOP-II 8-bit/16-bit: TSOP-I, SODIMM
Socket Voltage	3.3V: TSOP. 3.3V & 5V: DIP & SODIMM (J6)
PCI Voltage	3.3V & 5V

Feel free to contact your M-Systems representative with any questions you may have. M-Systems contact information can be found on our website (www.m-sys.com) and in the user manual.

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