

ICOP Embedded 386SX Flash Disk User's Manual

1. Setup a DiskOnChip® 2000 / Flash Disk

Installation Instructions

1. Make sure the ICOP-M6117D IPC is powered OFF
2. Plug the DiskOnChip 2000 device(s) into its socket. Verify the direction is correct (pin 1 of the DiskOnChip 2000 is aligned with pin 1 of the socket)
3. Set address for both DiskOnChip and Flash Disk devices as below instructions:

Step1: Enter to AMI BIOS Setup Utility while system power on

Step2: Enter to "Advanced Chipset Setup"

Step3: Select "GPCS Function" to "Enable"

(For DiskOnChip)

Step4: Select "GPCS0 Command" to "MEMR/W 8bit"

Step5: Select "GPCS0 Start Address" to "0C8000 HEX"

Step6: Select "GPCS0 Size" to "8 KBYTE" (goto Step 10)

(For Flash Disk)

Step4: Select "GPCS0 Command" to "MEMR/W 8bit"

Step5: Select "GPCS0 Start Address" to "0E0000 HEX"

Step6: Select "GPCS0 Size" to "64 KBYTE"

Step7: Select "GPCS1 Command" to "IOW 8bit"

Step8: Select "GPCS1 Start Address" to "000100 HEX"

Step9: Select "GPCS1 Size" to "2 BYTE"

Step10: Save changed and exit.

4. Power up the system

5. During power up you may observe the messages displayed by the DiskOnChip 2000 when its drivers are automatically loaded into system's memory

6. At this stage the DiskOnChip 2000 can be accessed as any disk in the system

7. If the DiskOnChip 2000 is the only disk in the system, it will appear as the first disk (drive C: in DOS)

8. If there are more disks besides the DiskOnChip 2000, the DiskOnChip 2000 will appear by default as the last drive, unless it was programmed as first drive. (please refer to the DiskOnChip 2000 utilities user manual)

9. If you want the DiskOnChip 2000 to be bootable: a - copy the operating system files into the DiskOnChip by using the standard DOS command (for example: sys d:) b - The DiskOnChip should be the only disk in the systems or should be configured as the first disk in the system (c:) using the DUPDATE utility

2.How to Set up a Flash Disk

Before you can use the ICOP-M6117D's Flash disk you will have to initialize it using a software utility called "PC104.EXE". This program can be found on the utility disk in the subdirectory "\512K FLASH"

- Connect a keyboard and floppy disk ICOP-M6117D to the PC/104 bus and boot-up your system.

- run **PC104.EXE** (this is a DOS command line utility)

```
DM&P FLASH disk initialize program V1.0
```

```
FLASH manufacturer : (1)ATMEL (2)SST
```

```
Input manufacturer number (1,2) : 1
```

```
Input quantity of FLASH (1,2) : 2
```

```
Simulation disk:
```

```
(1)DISK-A (2)DISK-B (3)DISK-C (4)DISK-D
```

```
Input manufacturer number (1,2,3,4) : 1
```

```
FLASH-DISK initialize finish.
```

(Text in bold should be entered by user)

- After running the PC104.EXE configuration program reboot the system, while holding down the left "Ctrl" key. This will bring you to the "Flash Disk Utility"

- "CHANGE CURRENT DISK NUMBER" lets you select the drive you want to assign to the disk, either A, B, C or D

- "CHANGE FLASH DISK SIZE" lets you select the amount of Flash chips that are onboard.

- make selections and reboot the system after closing the program

Your disk can now be formatted and setup with normal DOS commands such as

FORMAT, FDISK, COPY, SYS etc.

Note : when assigning the solid state disk as either C or D, you first have to run FDISK before formatting the drive !