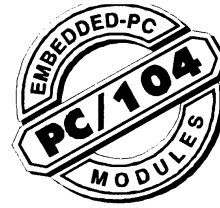


PCM-3840 DOC2000 Flash Disk Module



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Introduction

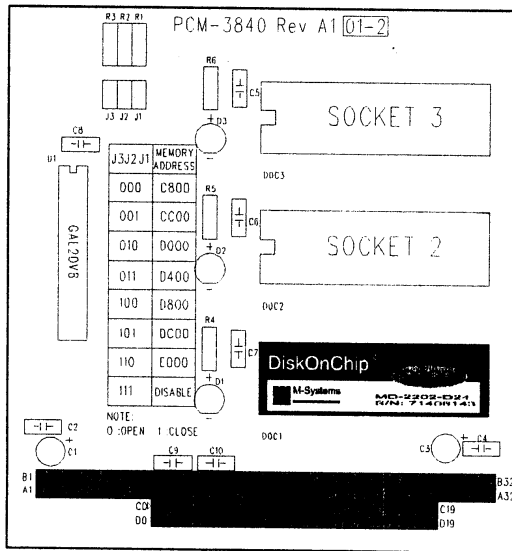
The PCM-3840 DiskOnChip®2000 Flash PC/104 module is an SSD that is part of a new generation of high performance single-chip Flash disks. The DiskOnChip®2000 provides a Flash disk in a standard 32-pin DIP package. The PCM-3840 uses a DiskOnChip®2000 single-chip Flash disk that incorporates a new Flash component technology called NAND. These high density, low cost components enable faster read/write speeds, higher capacities and better prices than previous generations of Flash components.

DiskOnChip®2000 provides a Flash disk (BIOS expansion only) which does not require any bus, slot or connector. Simply insert the DiskOnChip®2000 into a 32-pin socket on the PCM-3840 or a CPU board and you have a bootable Flash disk. DiskOnChip®2000 is the optimal solution for single board computers. This Plug and Play Flash disk is small, fully functional, easy to integrate and features very low power consumption.

Features

- Uses DiskOnChip®2000 single chip Flash memory
- 3 sockets, 2 ~ 24 MB capacity per socket, unable to link together
- 32-pin DIP JEDEC standard SRAM/EPROM/Flash compatible package
- High performance and superior read/write speeds
- ECC/EDC for high data reliability
- Full boot operability
- Built-in TrueFFS® which provides full hard disk read/write compatibility
- Operates with FLite™ (FAT-FTL/Lite) in O/S-less environments
- Extensive O/S support - DOS, Windows, Windows 95, pSOS+, QNX, VxWorks and others
- Uses 8 KB memory window
- Best cost/performance solution

Locating Components



Socket 1 address: Base
 Socket 2 address: Base + 2000
 Socket 3 address: Base + 4000

Specifications

- **Compatibility:** Full disk emulation
- **Host OS Support:** DOS 3.3 and up, Windows 3.1, Windows 95, Windows CE, pSOS+, QNX, VxWorks. Additional OS environments using FLite
- **Capacities:** 2, 4, 8, 12, 24 MB (per DiskOnChip®2000)
- **Current Consumption:** (per DiskOnChip®2000)
 - Standby 60 µA (typical), 100 µA (max.)
 - Read 25 mA (typical), 40 mA (max.)
 - Write 30 mA (typical), 40 mA (max.)
- **Supply Voltage:** 5 V (read and write)
- **Operating Temp.:** 0 ~ 70° C (regular)
 -25 ~ 75° C (enhanced)
 -45 ~ 85° C (extended)
- **Storage Temp.:** -45 ~ 100° C
- **Humidity:** 10% ~ 90% relative humidity, non-condensing
- **EDC/ECC (Enhanced Reed-Solomon ECC):**
 - Corrects up to two 10-bit symbols including two random bit errors
 - Corrects single bursts up to 11 bits
 - Detects single bursts up to 31 bits and double bursts up to 11 bits
 - Detects up to 4 random bit errors
- **Dimensions:** 95 mm x 90 mm (3.7" x 3.5")