PCM-3810A
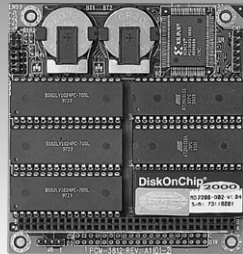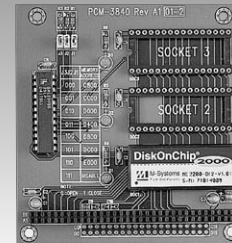# PCM-3840

DiskOnChip®/Flash Disk Card/Module

Solid State Disk Module

Features

- Emulates up to two floppy disk drives (1st, 2nd, 3rd or 4th)
- Supports one DiskOnChip® to emulate one HDD
- Onboard Flash programming circuitry with easy-to-use menu driven programming utility software
- Onboard LED signals low battery voltage (< 2.5 V)
- Connector for external battery
- Battery status displayed when booting
- Each card occupies only 16 KB of system memory space

Specifications

General

- **Capacity** — Disk sizes: 360 KB ~ 384 MB (two banks linked together)
  6 individual 32-pin memory sockets, divided into two banks one bank for each emulated drive
- **OS Support** — Drive designation: DOS drive
- **Boot** — Power-on auto-boot feature
- **Battery** — 2 lithium back-up batteries (3 V, 190 mAHr) for 3 years of data retention (depending on memory configuration)
- **Board Size** — 96 mm x 90 mm (3.7" x 3.5")
- **Power** — 1 A @ +5 V maximum for normal applications
- **Environment** — 0 ~ 60° C (32 ~ 140° F), operation

Memory Device Selection

Memory Devices and Disk Sizes
- The table below gives the number of chips required to emulate common floppy disk sizes.
- The Flash memory chips listed in the table below may be programmed on board.

Physical Specifications

Device Code	Manufacturer	Single Chip Size(KB)	360 KB	720 KB	1.44 MB	2.88 MB
27C010	ATMEL and AMD	128	x 3	x 6	-	-
27C040	ATMEL and AMD	512	x 1	x 2	x 3	x 6
681000P	Sony(SRAM)	128	x 3	x 6	-	-
684000P	Sony(SRAM)	512	x 1	x 2	x 3	x 6
29C010A	ATMEL Flash (+5V)	128	x 3	x 6	-	-
29C040A	ATMEL	512	x 1	x 2	x 3	x 6
TC551001BPL	Toshiba	128	x3	x6	-	-

Packing List

- **1 x User's manual**
- **1 x Utility disk**
- **1 x PCM-3810A**

Ordering Information

Standard
- **PCM-3810A-00A1**   Solid State Disk Module

Features

- 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) software for disk operations in O/S-less environments
- Uses 8 KB memory window

Specifications

General

- **Compatibility** — Full disk emulation
- **Host OS Support** — DOS 3.3 and up, Windows® CE, Windows® 3.1, Windows® 95, Windows® NT, pSOS+, QNX and VxWorks. Additional operating systems are supported by using Flite flash system and file manager software
- **Capacities** — 8, 16, 24, 32, 48, 80, 144, 288 MB per socket

Mechanical and Environmental

- **Dimension (L x W)** — 96 mm x 90 mm (3.7" x 3.5")
- **Weight**
- **Operating Temperature** — Operating: 0 ~ 60° C
  Storage: -20 ~ 80° C
- **Operating Humidity** — 10% ~ 90% relative humidity (non-condensing)

Power

- **Power Supply Voltage** — 5 V (read and write)
- **Power Consumption** — Standby 60 mA (typical), 100 mA (max.)
  Read 25 mA (typical), 40 mA (max.)
  Write 30 mA (typical), 40 mA (max.)

Packing List

- **1 x Startup manual**
- **1 x PCM-3840**

Ordering Information

Standard
- **PCM-3840-BARE**   DiskOnChip® Flash Disk Module (PC/104)