

PCM-3810A

PCM-3840

DiskOnChip®/Flash Disk Card/Module

Solid State Disk Module



PCM-3810A



Features

- Emulates up to two floppy disk drives (1st, 2nd, 3rd or 4th)
- Supports one DiskOnChip® to emulate one HDD
- On-board Flash programming circuitry with easy-to-use menu driven programming utility software
- On-board 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

- 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 mAh) 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

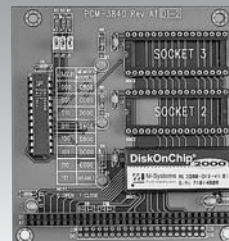
| Device Code | Manufacturer | Single Chip Size(KB) | 360 KB | 720 KB | 1.44 MB | 2.88 MB |
|-------------|-------------------|----------------------|--------|--------|---------|---------|
| 27C010 | ATMEL and AMD | 128 | x 3 | x 6 | - | - |
| 27C040 | ATMEL and AMD | 512 | x 1 | x 2 | x 3 | x 6 |
| 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 | x 3 | x 6 | - | - |

Packing List

- User's manual (p/n:2006381001)
- Utility disk (p/n:2056810111)

Ordering Information

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



PCM-3840



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

- 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
- Current Consumption** Standby 60 mA (typical), 100 mA (max.)
Read 25 mA (typical), 40 mA (max.)
Write 30 mA (typical), 40 mA (max.)
- Supply Voltage** 5 V (read and write)
- Operating Temperature** 0 ~ 60° C
- Storage Temperature** -20 ~ 80° C
- Humidity** 10% ~ 90% relative humidity (non-condensing)
- Dimensions** 96 mm x 90 mm (3.7" x 3.5")

Ordering Information

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