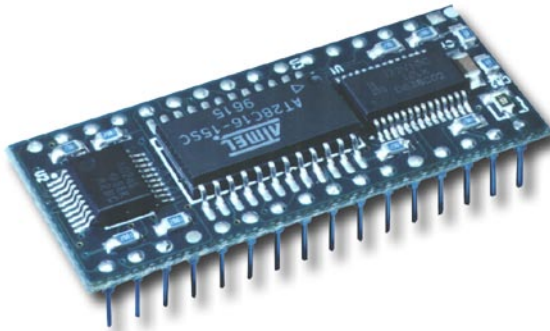


32MB Solid State Disk Emulator



Description

PROMDISK-Chip is a high performance solid state disk emulator designed to plug into a standard 32-pin EPROM socket in the BIOS extension address space of a PC compatible computer. The PROMDISK-Chip emulates a fixed disk drive with capacities ranging in size from 4MB to 32MB using non-volatile NAND Flash Memory. PROMDISK-Chip includes an internal BIOS extension ROM that contains the Datalight FlashFX integrated Flash file system and ROM-DOS version 6.22 disk operating system. It is fully DOS and Windows compatible, allowing the user to copy and erase files using standard DOS commands.

The on-board BIOS ROM automatically installs the PROMDISK-Chip as a bootable drive C, or the last logical drive when physical drives are present. PROMDISK-Chip can also be configured as the first bootable drive and automatically re-map physical drives when present.

The PROMDISK-Chip can replace a mechanical disk drive in systems designed to operate in harsh environments, or where weight and size are at a premium. The use of the PROMDISK-Chip in embedded or dedicated applications offers substantial benefits in overall system cost, performance, and reliability. Since the PROMDISK-Chip operates at bus speeds and is not encumbered by mechanical latency, the average read/write throughput is increased over that of a typical hard disk drive. The PROMDISK-Chip contains no moving parts, and incorporates low power CMOS technology to provide the highest reliability with the use of commercial grade components.

Features

- Emulates fixed disks up to 32MB
- On-board BIOS ROM with Datalight FlashFX Flash File System
- SMT NAND Flash Memory for High Reliability
- Boots as drive C
- Includes ROM-DOS version 6.22
- Occupies only 4K of BIOS extension memory address space
- Installs in JEDEC Standard 32-pin EPROM socket as BIOS Extension
- Windows 3.x and QNX Drivers Available

Memory

Surface mounted NAND Flash.

Capacity

4MB, 8MB, 16MB, or 32MB.

BIOS

4K BIOS Extension.

DMA

None

Interrupts

None

I/O Ports

None.

Performance

Write Speed: 250KB/sec. Read Speed: 560KB/sec.

Package

JEDEC Standard 32-pin 600mil PCB.

Dimensions

1.73"L x 0.76"W x 0.3"H.

Power

JEDEC Standard 32-pin 600mil PCB.

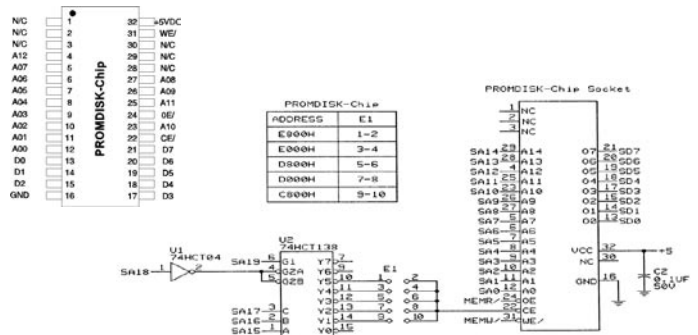
Temperature

Operating Temperature: 0°C ~ +70°C

Storage Temperature: -40°C ~ 100°C

Humidity: 10% ~ 90% RH, non-condensing

Technical Drawing



PROMDISK-Chip Design Example
Figure 1

Ordering Information

The PROMDISK Chip can be ordered in the following configurations:

- | | |
|-------|--------------------|
| 72300 | PROMDISK-Chip 4MB |
| 72301 | PROMDISK-Chip 8MB |
| 72302 | PROMDISK-Chip 16MB |
| 72306 | PROMDISK-Chip 32MB |