

IDE FLASHDISKS Rugged Solid State Mass Storage for SBCs with IDE Interface



FEATURES

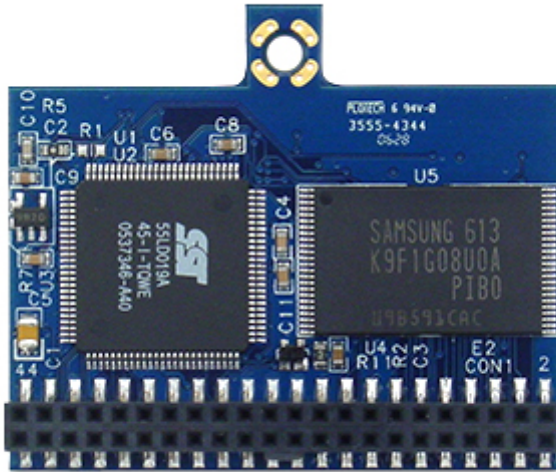
Mounts on 44-position 2mm pin header

128MB to 4GB capacity

Master/Slave jumper

Rugged design with mounting screw

Wide temperature -40 to +85C operation



Bottom view (side facing SBC)



Top view (side facing out)

◆ Products where used:

Helios PC/104 Low-Power SBC with Vortex86DX CPU and Data Acquisition

Standard ATA/IDE Bus interface

512 Bytes per sector
ATA command set compatible
Selectable Master/Slave Operation
Support Data Transfer up to PIO Mode-4
Support up to Multiword DMA Mode-2

Capacities Available (capacities not listed are special order)

32, 64, 128, 256, 512 MB
1, 2, 4, 8 GB

Multi-tasking Technology Enables Fast Sustained Write Performance

Max. 6 MB/sec under PIO mode
Max. 7 MB/sec under DMA mode

Fast Sustained Read Performance

Max. 10 MB/sec under PIO mode
Max. 11 MB/sec under DMA mode

WP_PD# pin configurable by host for prevention of data overwrites

Added data security through User Selectable Protection Zones

Power Management Unit

Immediate disabling of unused circuitry

RoHS Compliant

Zero Power Data Retention

Batteries not required for data storage

Temperature Range

Industrial -40°C to 85°C

Intelligent ATA/IDE Module

Built-in Embedded Flash File System

Implements dynamic wear-leveling algorithms to substantially increase longevity of flash media

Built-in ECC support corrects up to 3 random 12-bit symbols of error per 512 Byte sector

Support Voltage Read and Write Operation

3.3 V and 5.0 V compatibility

Low Power Consumption

Active mode: 35 mA/55 mA (3.3V/5.0V) typical
Sleep mode: 100 µA/150 µA (3.3V/5.0V) typical

Standard IDE Connector

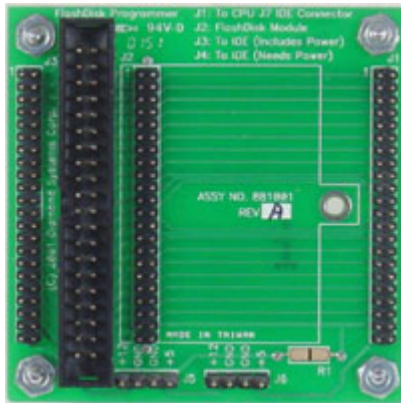
44-pin 2mm pitch socket

Rugged Design

Mounting tab with screw provides secure, shock/vibration-resistant installation

IDE Flashdisk Programming Board

Our ACC-IDEEXT programming adapter is used to connect an IDE flashdisk to a desktop computer via an IDE cable. Both industry-standard cable connections are supported: 40-pin .1" pitch cables and 44-pin 2mm pitch cables. The 44-pin connection includes 5V power; the 40-pin connection requires an external 5V power source. The power connector is compatible with standard desktop PC power supplies.



◆ Ordering Information

◆ Models and Accessories

◀ IDE Flashdisks ▶

available models:

ACC-IDEEXT	IDE Flashdisk Programming Kit	Available
FD-256R-XT	256MB IDE Solid State Flashdisk, extended temperature	Available
FD-1GR-XT	1GB IDE Solid State Flashdisk, extended temperature	Available
FD-4GR-XT	4GB IDE Solid State Flashdisk, extended temperature	Available

Please [login](#) or [signup](#) for an online quote request.

◀ Cables and accessories ▶

available models:

ACC-IDEEXT IDE Flashdisk Programming Kit

Please [login](#) or [signup](#) for an online quote request.

www.diamondsystems.com | [Sunnyvale, California USA](#) | [+1-650-810-2500](tel:+1-650-810-2500) | sales@diamondsystems.com