

PMC  
Fast Flash Disk Module

## ASPMC-630/660

### Product Overview

The ASPMC630/660 Ultra IDE / PCI Fast Flash Disk PMC modules plug into a single PMC slot and interfaces via IDE or PCI bus. The M-Systems' Fast Flash Disk (FFD) performance of up to 100MB/Sec burst and up to 40MB/Sec R/W can be accessed either by PCI bus or through direct IDE (PIO, DMA, Ultra DMA5), available up to 16GB in a PMC format.

In order to allow backplane I/O as well as PMC front panel connector, the ASPMC630 IDE interface utilizes PMC Jn4 IEEE1386 defined connector. ASPMC630 Jn4 I/O enables routing by its carrier to both VME-P2 and cPCI-J3/J5 backplane connectors.

The ASPMC660 Ultra Fast Flash Disk interfaces by Jn1 & Jn2 to the PCI bus - yield an added online Flash Disk storage, which is scanned and registered automatically by CPU BIOS.

Thus- No Connecting Cables are needed!!

Supporting OEM specific application features such as conformal coating, conduction cool, Integrity OS, write protect, secure erase and more.

The ASPMC630/660 carries 1 year warranty.



### Applications

- Military & airborne systems
- Rugged Storage
- Telecommunications
- Data acquisition systems
- Factory automation
- Automotive
- Testing instrumentation



Enabling SanDisk Flash  
Disk Technology

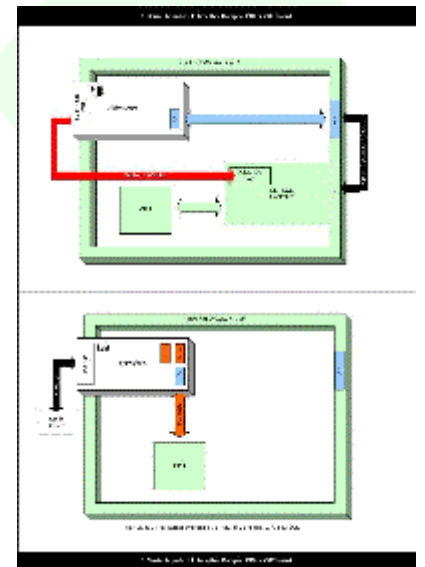


## Features

- 1GB to 16GB Flash Disk in a single PMC slot
- 32GB to 128GB in a high PMC slot
- IDE/ATA or PCI interfaces
- High data transfer rate, up to:
  - 100MB/Sec Burst R/W,
  - 40MB/Sec Sustained Read/Write
- Fast erase and Sanitize (comply NSA/DoD) in seconds
- MTBF > 1,000,000 hours (capacity depended)
- EDC/ECC On-the-fly H/W & S/W based on BCH
- Built-in power-up self test (BIT)
- Manual and automatic self-diagnostics
- TrueFFS® Dynamic wear leveling & Bad Block Management
- >5,000,000 Write/Erase cycles; Read unlimited
- Power consumption typ/max 4.4W / 5W (for 16GB capacity)
- Operating temperature:
  - Commercial 0°C to +70°C
  - Enhanced -25°C to +75°C
  - Extended -40°C to +85°C
- Storage temperature -55°C to +95°C
- Humidity 5 to 95% relative, non-condensing
- Altitude (operating & non-operating) +70,000 feet
- FFD unit MIL-STD 810F:
  - Shocks - Half Sine, 1500G, 0.5ms
  - Vibrations - 16.3G RMS (Random, 20Hz to 2000 Hz, 3 vibrations axes)
- O.S. drivers - uses existing Windows, VxWorks® (P/N AS660VXPPCx.n)
- Supported by Integrity™ OS, Sun-Solaris SCSI/IDE drivers
- Conduction cooled
- Conformal coating
- Write protect jumper
- Warranty - 1 Year

# SanDisk

ASPMC630/660 takes advantage of the **SanDisk FFD** (Fast Flash Disk) top reliable high performance mass storage Solid State Disk. The FFD is designed to withstand extreme shocks, vibrations while operating without compromising data integrity, providing top disk performance and capacity.



ASPMC6x0		cap	t	c	f		
3	IDE/ATA	0010	1,024MB	C	0°C to 70°C	C Conduction Cool	F Conformal Coating
6	PCI	0020	2,048MB	E	-25°C to 75°C		
		0040	4,096MB	Z	-40°C to 85°C		
		0060	6,144MB				
		0080	8,192MB				
		0160	16,384MB				

For 32GB to 128GB  
consult factory

### Ordering Example:

ASPMC660-0160-ECF is a PMC Ultra ATA Flash Disk module, with 16GB, PCI Interface, Conformal coated, Conduction cool, operating at -25°C to 75°C