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AT1810 Mini Mighty
1.8” IDE Solid State Drive



- 160 Mbyte uncompressed capacity
- Full -40°C to +85°C industrial temperature range
- compact 1.8” drive formfactor with 44 pin, 2mm IDE interface
- 24-bit ECC for exceptional data reliability
- 5 volt, low power operation
- Completely solid state - no moving parts
- 1000G operating shock
- 15G operating vibration
- 0.3 millisecond random access time
- 3.5 Mbyte/sec media transfer rate
- 1.7 Mbyte/sec sustained Read throughput
- 650 Kbyte/sec sustained Write throughput
- Cache SRAM buffer
- 10 year data integrity
- Pending CE and CSA/UL Compliant

The AT1810 is the smallest member of the Memtech Mighty series of 100% compatible IDE solid state drives, available in an extremely compact 1.8” drive formfactor. It is completely solid state, with no moving parts. This contributes to the unit’s exceptional ruggedness and wide operating temperature range; with no moving parts, there is no mechanism for mechanical wear-out. Being 100% IDE compatible, no special drivers or flash file managers are required. It is a virtual drop in replacement for standard rotating media.

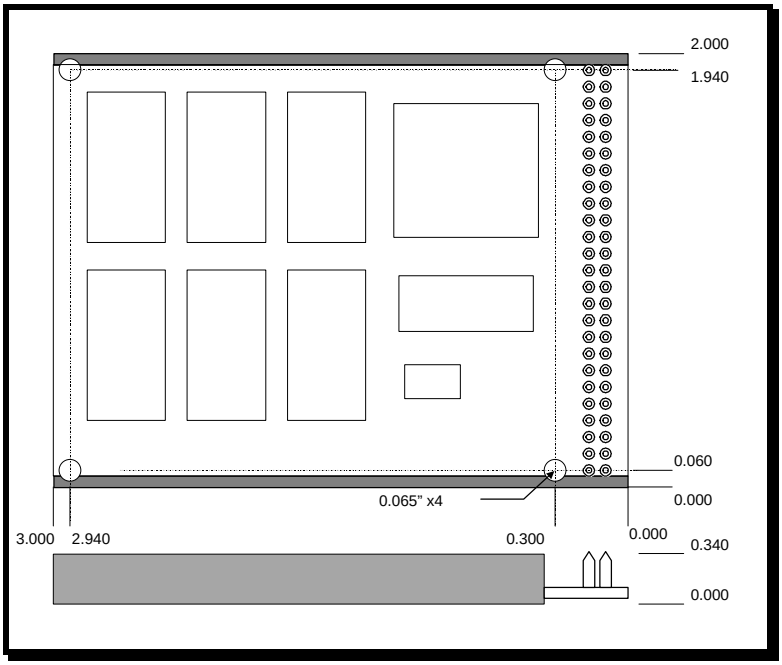
The AT1810 employs 64 Mbit sector erasable NAND E^2PROMs (Flash) to deliver up to 160 Mbytes of uncompressed, non-volatile solid state storage in an extremely small, rugged formfactor. The 0.3 millisecond access time permits thousands of transactions to occur per second, which is critical in server and high I/O applications. Raw data throughput is also very fast at a sustained 1.7 Mbytes per second.

The IDE interface is implemented using a custom Flash controller with an integrated 24-bit error detection and on-the-fly correction mechanism to greatly improve data reliability. It’s small formfactor and low-power operation make the AT1810 ideal for hand-held, portable or embedded applications requiring up to 160 Mbytes of data storage. Advanced PIO modes and multisector transfer modes are supported, as well as LBA addressing.

The drive is available in standard capacities of 8, 16, 24, 48, 96, 128 and 160 Mbytes. Other capacities are available as a special request. Disk compression utilities may be used to effectively double the physical capacity of the drive.

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Each drive is fully tested under environmental and voltage extremes to guarantee data integrity under even the harshest conditions.

The Mini Mighty may be mounted in any orientation. Four mounting holes with an internal diameter of 0.065" are available. External standoffs may be required for proper mounting of the drive.

SPECIFICATIONS*

Interface

IDE Compatibility	X3T10 2008D, Rev. 6
IDE Drive Number	Drive 0 or 1
Physical Capacity	160 Mbytes
Physical Sector Size	512 bytes

Performance

Access Time	0.3 ms
Onboard Cache	128 Kbytes
Media Transfer Rate	3.5 Mbytes/sec
Read Transfer Rate	1.7 Mbytes/sec sustained
Write Transfer Rate	650 Kbytes/sec sustained

Environmental

Operating Temperature Range	
Commercial	0^{o} to $+70^{o}$C
Extended	-20^{o} to $+75^{o}$C
Industrial	-40^{o} to $+85^{o}$C
Storage Temperature	-55^{o} to $+125^{o}$C
Shock - operating	1000G, half sine
Vibration - operating	15G Random
Airflow	None required
Humidity	5% to 95% NC
Safety (pending)	CSA File LR114427
EMC (pending)	EN55022 and EN50082-1

*Specifications subject to change without notice.

Reliability

Endurance	Application Specific
8Kbytes/30 sec	3.2 million hours
Error Rate	<1 in 10^{15} bits read
ECC	24-bit

Power Requirements

Voltage	5V +/- 5%
Current	AT1810-160
Sleep	8 mA
Read	30 mA
Write	35 mA

Mechanical

Length	3.00 inches (76.2mm)
Width	2.00 inches (50.8 mm)
Height	0.34 inches (8.6mm)
Cable Interface	44-pin, 2mm
Max. Cable Length	18 inches (457 mm)
Rec. Cable Length	12 inches (305 mm)
Weight (96 Mbytes)	1.1 oz (31 g)
(160 Mbytes)	1.4 oz (39 g)

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