

**MEMTECH**

AT1830 Mustang 1.8" IDE Solid State Drive

- 64Mbyte to 8 Gbyte uncompressed capacity
- Full -40°C to +85°C industrial temperature range
- Compact 1.8" drive form factor with 44 pin, 2mm IDE interface
- 32-bit ECC for exceptional data reliability
- 3.3 to 5 volt, low power operation
- Completely solid state - no moving parts
- 1000G operating shock
- 15G operating vibration
- 4.0 Mbyte/sec sustained Read throughput
- 3.5 Mbyte/sec sustained Write throughput
- 10 year data integrity



The AT1830 Mustang is the largest capacity 1.8" IDE drive available today. With a current maximum capacity of 8 Gbyte in an extremely compact 1.8" drive form-factor, it delivers exceptional value for its features. Future capacity, as new, higher capacity NAND EEPROM become available, is 16 Gbytes. 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 AT1830 employs sector erasable NAND E²PROMs (Flash) to deliver up to 8 Gbytes of uncompressed, non-volatile solid state storage in an extremely small, rugged form factor. Raw data throughput is fast at a sustained 4.0 Mbytes per seconds for reads and 3.5 Mbytes/second for writes.

The drive is implemented using a custom IDE Flash controller with an integrated error detection and correction mechanism and proprietary remapping and wear-leveling technology to greatly improve data reliability. It's small form factor and low-power operation make the AT1830 ideal for hand-held, portable or embedded applications requiring up to 8 Gbytes of data storage. Advanced PIO modes and multi sector transfer modes are supported, as well as LBA addressing.

The drive is available in a number of standard capacities from 64 Mbytes to 8 Gbytes. Please contact the factory for specific size availability.

Mouser Electronics

Authorized Distributor

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STEC:

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