

## MA110

### USB 2.0 IDE Controller

#### Features

- USB
  - Fully compatible with USB 2.0/1.1 specification
  - Support USB 2.0 specification for 480Mbit/sec and 12Mbit/sec operation
  - USB Device Class Definition for Mass Storage , Bulk-Transport v1.0
  - USB 2.0 Bus Power & Self Power device spec. compliance
  - Endpoint:
    - Endpoint 0: 64 bytes control transfer.
    - Endpoint 1: 512 bytes bulk transfer for IN transaction.
    - Endpoint 2: 512bytes bulk transfer for OUT transaction.
  - Work with the default driver from Windows, Mac9.2, Mac OS X, Linux2.4.2
- Software features
  - Backup/Scheduling backup/Restore supporting
- ATA IDE Support
  - Complies with ATA/ATAPI-6 Draft Specification
  - Support 28-bit/48-bit addressing
  - Support PIO modes 0,1,2,3,4 and UDMA modes 0,1,2,3,4
  - Support HDD, CD-ROM, CD-RW, CD-COMBO, DVD-ROM, DVD-RW
- Embedded memory FIFO for data transfer
- User defines VID/PID through writing external EEROM
- Integrated 5V to 3.3V/1.8V Voltage Regulator
- Integrated PLL with 12MHz crystal input
- 48 pin LQFP package
- Pin Backward with M110B

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