

## JMB353 1394a + USB20 to SATA Host Adapter

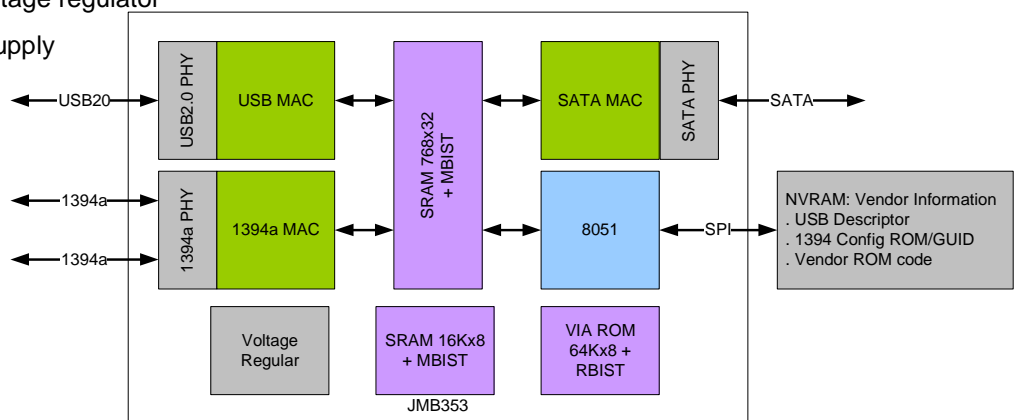
### Description

The JMB353 is single chip solution to bridge between USB 2.0 host or 1394 host and SATA device. The highly integrated USB 2.0, 1394a and SATA Phys technology provides a cost-effective solution to apply USB to SATA device or 1394 to SATA device enclosure. The USB adheres to the Mass Storage Class Bulk-Only Transport Specification. The embedded command parser supports both ATA and ATAPI command set with LBA48 bit addressing capability. The 1394 adheres to SBP-2 specification. And SBP-2 acceleration hardware is embedded to off-load CPU and easy firmware control.

### Features

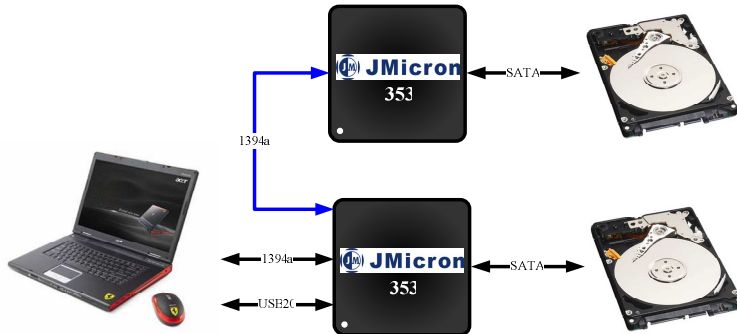
- Complies with Gen1i/Gen1m of Serial ATA II Electrical Specification 2.5
- Supports SATA II Asynchronous Signal Recovery (Hot Plug) feature
- Complies with USB 2.0 Specification
- Complies with USB Mass Storage Class, Bulk-Only Transport Specification
- Supports USB High-Speed and Full-Speed Operation
- Complies with IEEE Std 1394-1995 and IEEE 1394a-2000 Specifications
- Supports Asynchronous Transfers at 100/200 and 400 Mb/s for 1394a
- Supports 1394a SBP-2 Acceleration Feature to optimize performance
- Provides two 1394a ports for cascade topology application
- Supports 1394a power saving mode when USB is active
- Supports ATA/ATAPI PACKET command set
- Supports ATA/ATAPI LBA48 addressing mode
- Supports single 12MHz external crystal
- Supports external NVRAM for Vender Specific VID/PID of USB/1394 Device Controller
- Embedded 3.3V to 1.8V voltage regulator
- Single power 3.3V power supply
- 0.18um CMOS technology
- 64 LQFP package
- 15 GPIOs

### Function Block Diagram

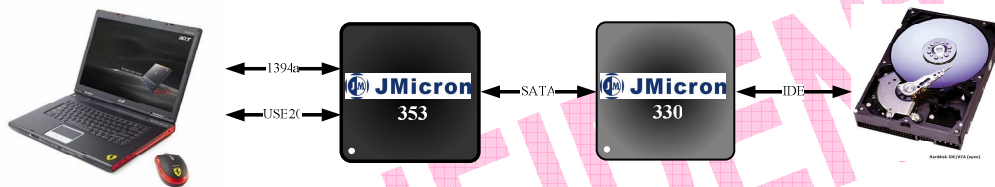


## Applications

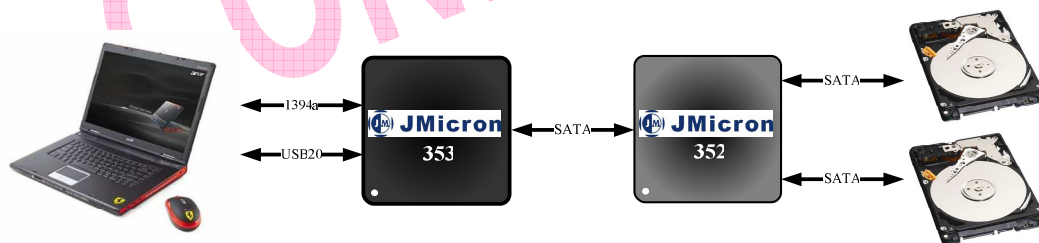
Adapt to SATA disk.



Adapt to IDE disk.



RAID application



## Deliverables

- Data sheet
- Design guide
- Application EVB board

## Contact Information

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