



Micron/JMB355

## ***JMB355 eSATA+1394A/B + USB20 to SATA Host Adapter***

### **Description**

The JMB355 is single chip solution to bridge between USB 2.0 host or 1394 host and SATA device. The highly integrated USB 2.0, 1394A/B and SATA Phys technology provides a cost-effective solution to apply SATA to SATA device or 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**

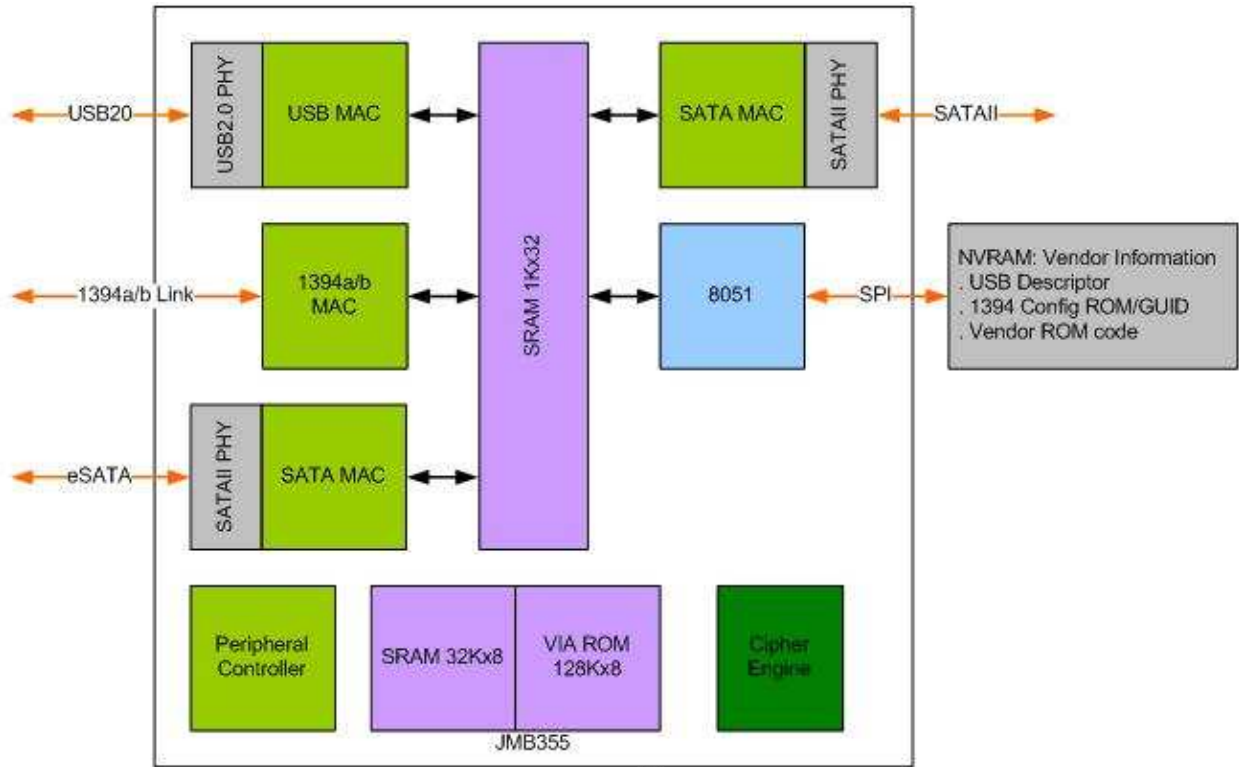
- Compliance with GenI/GenIm of Serial ATA II Electrical Specification 2.6
- Support SATA II Asynchronous Signal Recovery (Hot Plug) feature
- Compliance with USB 2.0 electrical specification
- Support USB High-Speed and Full-Speed Operation
- Compliance with USB Mass Storage Class, Bulk-Only Transport Specification
- Support Asynchronous Transfers at 100/200 and 400 Mb/s for 1394a
- Support 1394A/B SBP-2 Acceleration Feature to optimize performance
- Compliance with IEEE Std 1394-1995, IEEE 1394a-2000 and IEEE 1394b-2002

#### **Specifications**

- Support ATA/ATAPI PACKET command set
- Support ATA/ATAPI LBA48 addressing mode
- Support 30MHz external crystal
- Support external NVRAM for Vender Specific VID/PID of USB/1394 Device Controller
- Design for Win2000, WinXP, WinVista, Win7, MAC 10.x or later version.
- 0.13um CMOS technology
- 100 LQFP package (14x14)
- 24 GPIOs



### Function Block Diagram



### Applications

Adapt to SATA disk.



Adapt to IDE disk.





## Deliverables

- Data sheet
- Design guide
- Application EVB board

## Contact Information

Sales: [sales@jmicron.com](mailto:sales@jmicron.com)

Technical support: [fae@jmicron.com](mailto:fae@jmicron.com)

CONFIDENTIAL