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.
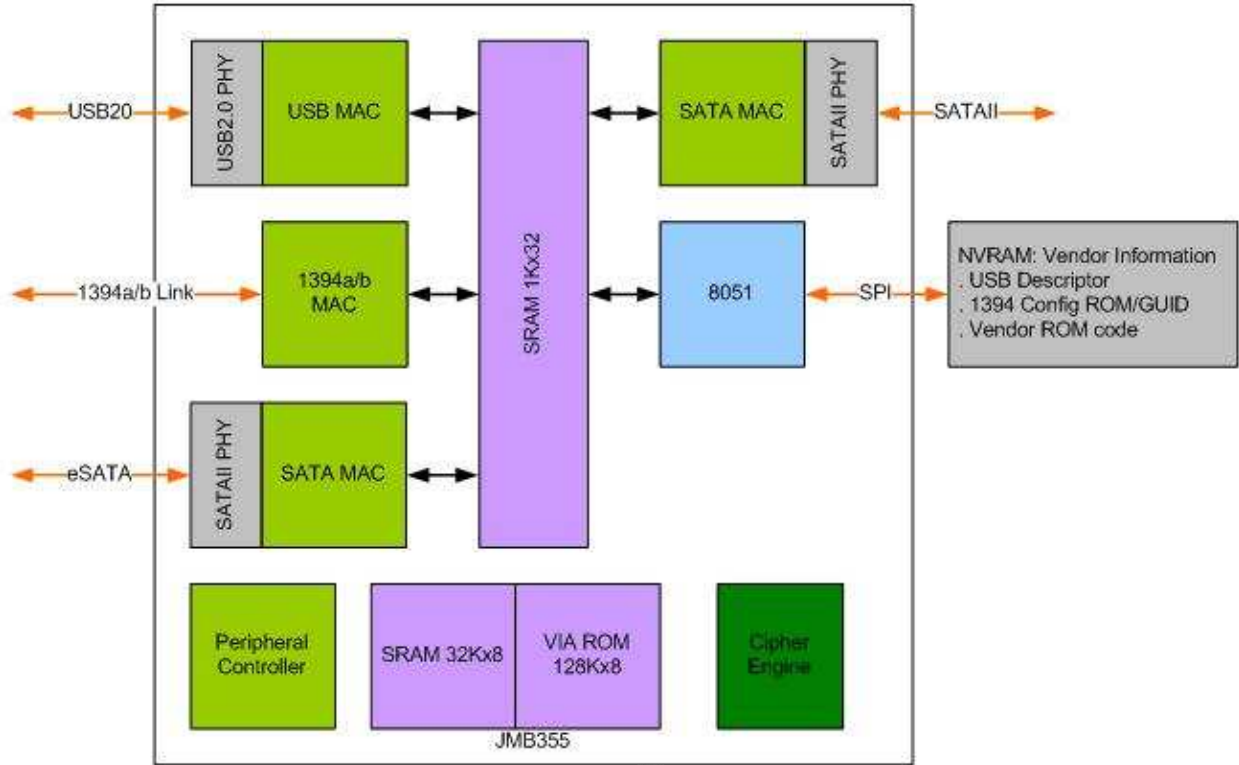
Features

➢ Compliance with Gen1i/Gen1m 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

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