



JMS567

Super Speed USB 3.0 & SATA 6.0Gbps Bridge Controller

Overview

The JMS567 is a low power consumption and high performance USB 3.0 to SATA 6.0Gbps (bit per second) Bridge controller. A variety of IC package types, such as LQFP48 7x7, QFN48 6x6, QFN48 7x7 and LQFP64 10x10, are provided for an application diversity of data storage devices.

The JMS567 is able to reach a data transmission rate above 300M bytes per second when paired with an SSD module using JMicron's JMF667 SSD controller. Enabling USB Attached SCSI Protocol (UASP) on the JMS567, increased the data transmission rate by as much as 30%.

The JMS567 power consumption is significantly lower than that for its previous generation bridges and its power consumption is compliant with both USB 3.0 and USB 2.0 power requirement specifications.

JMS567 has passed the USB-IF test procedure for USB3.0 products and it won the Windows Hardware Certification approval.

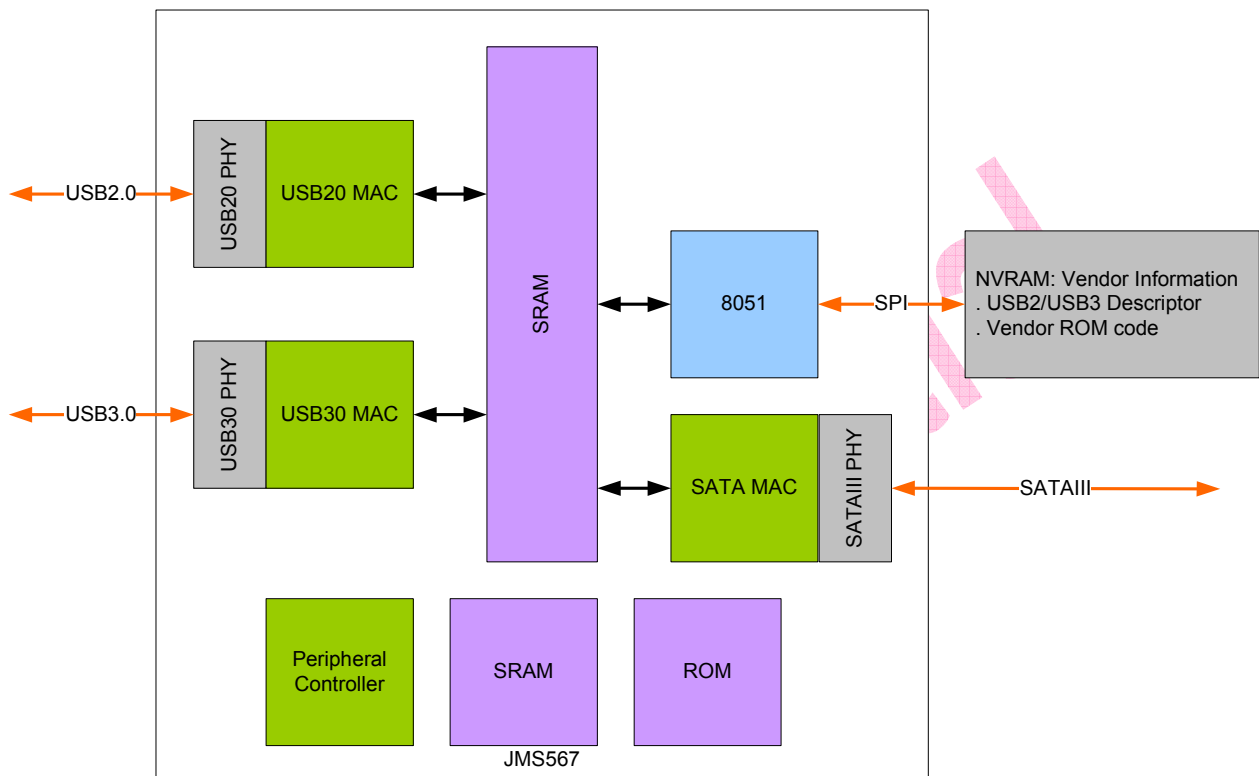
Features

- Complies with Gen2i/Gen2m of Serial ATA II Electrical Specification 2.6
- Complies with Gen3 of Serial ATA III Electrical Specification 3.0
- Complies with USB 3.0 Specification, USB Mass Storage Class, Bulk-Only Transport Specification
- Complies with USB Attached SCSI Protocol (UASP) Specification
- Supports USB Super-Speed/High-Speed/Full-Speed Operation
- Supports USB2.0/USB3.0 power saving mode
- Supports SHA-1/SHA-256 for IEEE-1667 digest calculation <optional by firmware support>
- Supports external SPI NVRAM for Vendor VID/PID of USB2.0/USB3.0 device controller
- Supports ATA/ATAPI PACKET command set
- 10 GPIOs for customization
- Up to 20 GPIOs for LQFP64 package
- Provides hardware control PWM
- Provides software utilities for downloading the upgraded firmware code under USB2.0/USB3.0



- Design for Win XP, Win7, Win8, MAC 10.3 or later version.
- Supports 25MHz external crystal
- Embedded 3.3V to 1.0V voltage regulator
- QFN48 package (6x6), QFN48 package (7x7), LQFP48 package (7x7), LQFP64 package (10x10)

Functional Block Diagram



Applications

