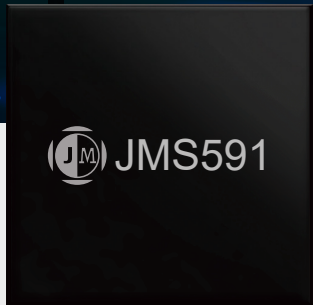


USB 3.2 Gen2x2 & eSATA 6Gb/s to 5 ports SATA 6Gb/s Hardware RAID Storage Solution

JMicron® USB 20Gbps & eSATA 6Gb/s Five-Bay SATA Bridge Controller
Unlock Storage Potential and Ensure Data Safety



Key Feature

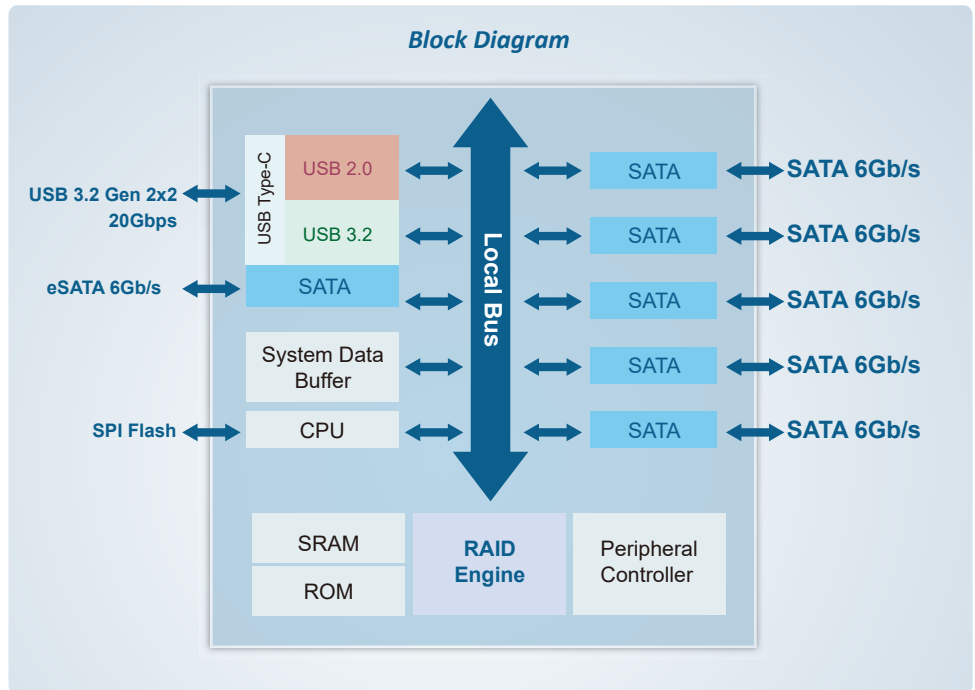
- USB 3.2 Gen 2x2 & eSATA 6Gb/s to 5 ports SATA bridge controller
- Build in HW RAID engine with RAID 0/1/5/10/JBOD mode
- Support FS/HS/SS/SS+ USB operation and up to SuperSpeed USB 20Gbps
- Integrate with USB Type-C™ CC-Logic
- Support USB Bulk Only Transfer (BOT) and USB Attached SCSI protocol (UASP)
- Support USB link power management
- Support SATA Port Multiplier through USB & eSATA
- Support USB & the SSD
- Support NCQ to all SATA ports
- Support GPIO for UART/I2C/SPI and PWM control
- 12x12, 196 TFBGA package
- eSATA firmware download and update
- Support TRIM to

Product Description

The JMS591 is a high-performance bridge controller supporting USB 3.2 Gen2x2 and eSATA 6Gb/s dual-host interface, providing over 2000MB/s bandwidth in USB system application. It can be compatible with up to 5 SATA devices, suitable for HDDs, SSDs, or other storage devices. Whether for personal use or enterprise-level storage expansion, JMS591 delivers excellent connection performance and flexible system integration capabilities.

Through customized firmware, software tool, or GPIO definitions, JMS591 can support various system application modes:

- Hardware RAID 0/1/5/10/JBOD mode: achieving data protection
- Port Multiplier Mode: meeting ultra-high-capacity storage needs



Sequential R/W >2000MB/s

CrystalDiskMark 8.0.6 x64 [Admin]			
File Settings Profile Theme Help Language			
All	5	1GiB	D: 0% (0/4657GiB)
	Read (MB/s)		Write (MB/s)
SEQ1M QBT1	2000.34	2031.39	
SEQ1M Q1T1	1684.90	1681.81	
RND4K Q32T1	268.04	297.30	
RND4K Q1T1	40.02	67.14	

Typical Application

RAID Application

