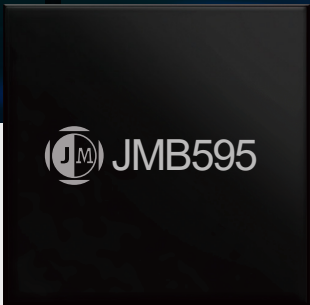


PCIe Gen4x4 to 16 ports SATA 6Gbps Multi-bay Storage Solution

JMicron® PCIe Gen4x4 to 16 ports SATA 6 Gbps I/O Controller



Product Description

The JMB595 is a system-on-chip SATA controller that bridges PCIe with SATA interfaces. The JMB595 host interface supports 4 PCI Express (PCIe) lanes and complies with the PCIe 4.0 specification, while supporting SATA PHYs capable of 1.5 Gbps, 3.0 Gbps and 6.0 Gbps data transfer rates on each downstream port, enabling seamless operation of up to 16 direct-connect SATA storage devices from any system design.

JMicron provides the industry's leading storage solutions. The JMB595 can be applied in Rack / Blade / Sled server, embedded system, network video recorder (NVR) / digital video recorder (DVR) storage system, network attached storage (NAS), multi-bay Thunderbolt™ storage devices, etc.

General Features

- Supports up to 16 SATA ports
- Supports OS inbox drivers with no additional drivers needed
- Supports SPI Flash-less design
- Supports industry-standard I2C/SMBus, UART, SPI, SGPIO interface
- Supports PLDM/MCTP/UBM/IPMI protocol
- Supports external MCU remote control
- EHS-FCBGA 625 Ball 21 × 21 mm

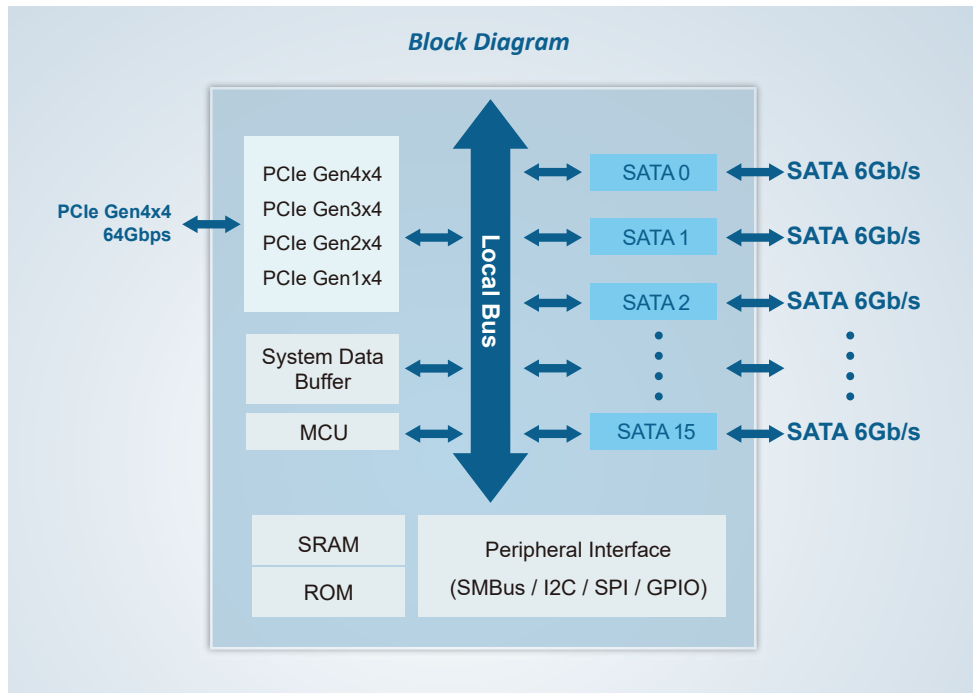
PCIe Key Features

- Supports MSI interrupts
- Supports PCIe power management

SATA Key Features

- Supports auto-detection of SATA device hot-plug events
- Supports Native Command Queue (NCQ) and legacy commands
- Supports SATA Partial / Slumber power management states

Sequential R/W **~7000MB/s**



Typical Application

