KL5BUDV002

USB2.0 to PCI BUS

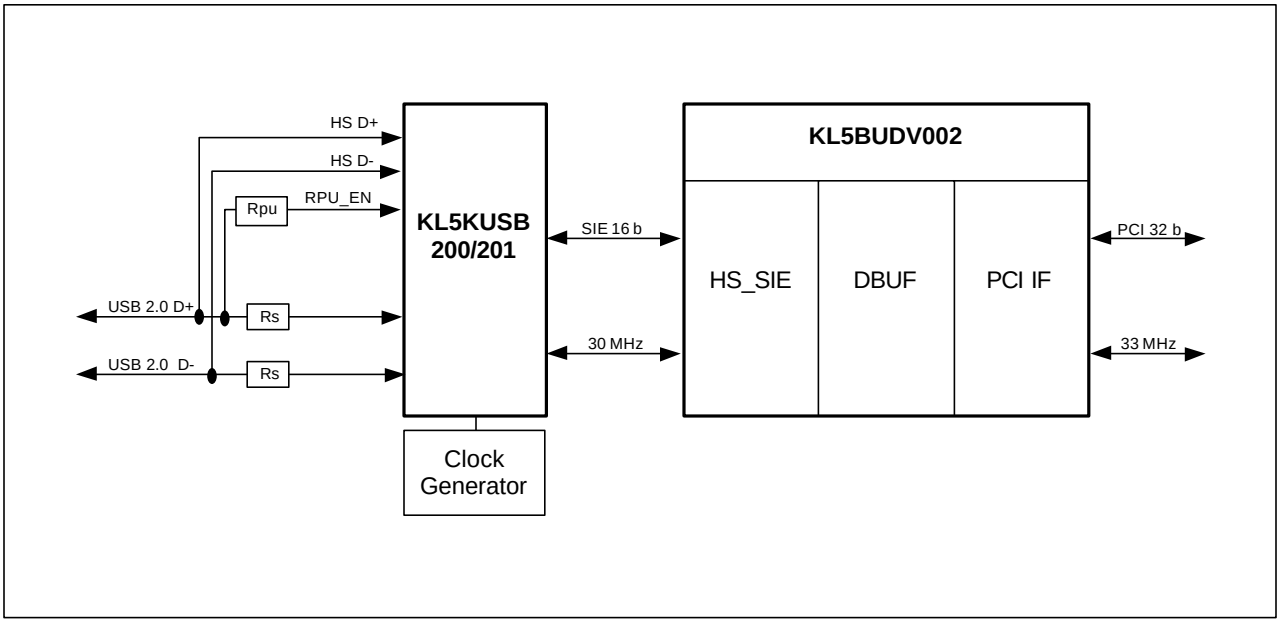
General Description

The Kawasaki KL5BUDV002 is a high performance device that transfers data between the USB2.0 high-speed BUS and the PCI 33MHz, 32 bit BUS. This device easily interfaces with our USB 2.0 transceivers, the KL5KUSB200 and KL5KUSB201. The KL5BUDV002 is an ideal solution to convert a PCI device to a USB2.0 interface with its HS_SIE USB2.0 Transceiver interface, 4 sets of high-speed bulk packet size buffers, PCI interface and PCI master 2DMA channel support.

Features

- 33MHz PCI interface
- 30MHz USB 2.0 SIE BUS for High-Speed SIE operation
- Double packet buffer - 512x2 HS, 64Bx2 FS
- Internal DMA operation between the High-Speed SIE and Double Buffer
- Interfaces with USB 2.0 PHY
- High-Speed chirp protocol
- High-Speed/Full-Speed compatibility
- USB basic operation and transaction control
- Up to 5 endpoints
- PCI interface for Target and Master (2 DMA) modes
- Page and Descriptor DMA Modes
- USB data access by PCI target or DMA
- 0.35u Std cell technology
- V_{dd} = 3.3V, T_a = 0~70°C
- 144 pin LQFP package (20 mm^2)

Block Diagram



Pin Diagram 144LQFP