



PCI to Local Bus Bridge Controller, SB4002A

SB4002A



PCI Target Interface Controller

For years, the PCI Local Bus has been the most powerful and widely spread standard bus, which is used in general PCs, industrial computers, various servers and workstations. This tendency will continue for the time being for its convenience and high efficiency. But, in spite of the convenience and compatibility, the development process of PCI is quite difficult and therefore has been a burden to developers.

SystemBase offers the SB4002A, and it will be the best solution that provides the highest performance and the easiest information for developers when you develop a PCI target device. SB4002A has an excellent usefulness while converting an ISA bus device or an old style device into a PCI target device, and moreover SB4002A shows the most suitability when you are about to upgrade an existing 33MHz PCI target device into a 66MHz PCI target device. SB4002A is the only PCI Target Interface Controller that supports the operating frequency of 66 MHz that no other PCI Target Interface Controllers can, and therefore guarantees the best performance.

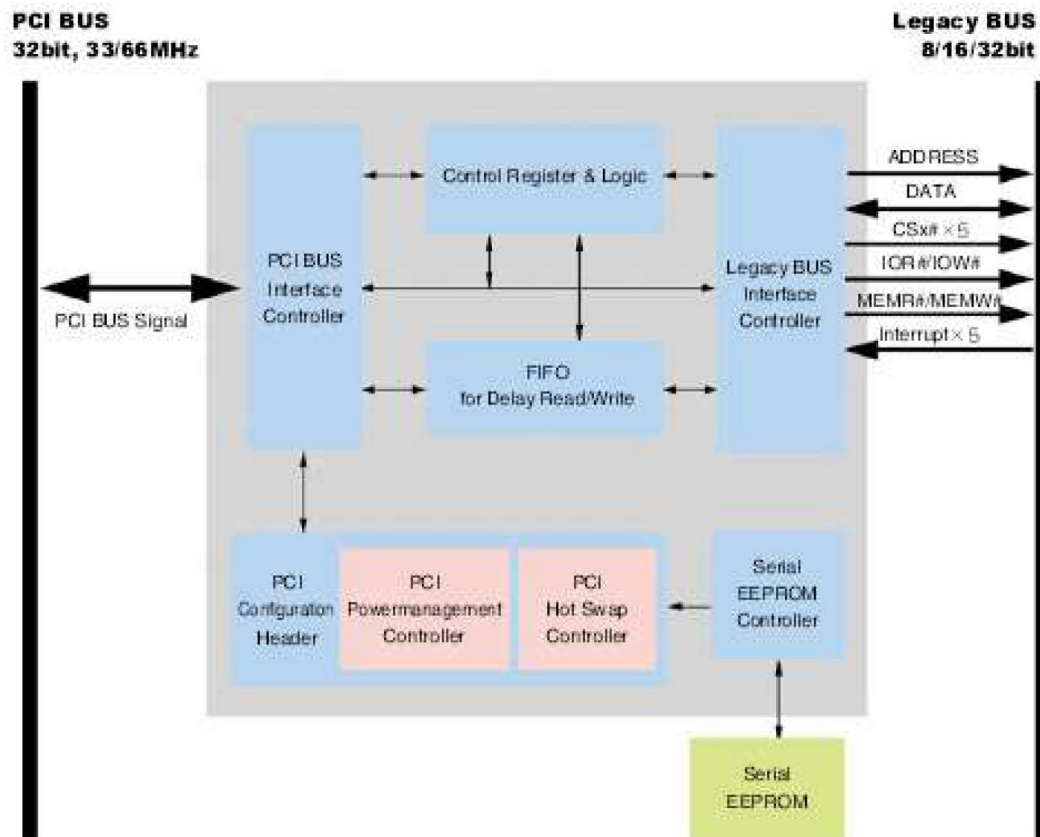
■ SB4002A Features

- PCI Local Bus Spec Rev 2.3 compliant
- PCI Burst Transfers up to 264Mbytes/sec (32bit Bus @ 33/66MHz)
- Supports the ISA like Local Legacy Bus (transaction speed up to 66MHz)
- Selectable data width (8/16/32 bits) and little/big endian at the legacy bus
- PCI Power Management 1.1
- Supports CompactPCI and CompactPCI Hot Swap
- Supports 5 PCI to Local Address Spaces (Memory or I/O selection is possible)
- Provides Chip Select and Interrupt lines at each 5 addresses
- Capable of controlling the Read/Write timing
- Supports the Delayed Read/Write by using a FIFO
- Downloads the Configuration header data from the external Serial ROM
- 176 pin TQFP Package
- Electrically compatible I/O pins with PCI Local Bus Specification v3.0 (+3.3V I/O, Input 5V tolerance)



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Block Diagram



Order Information

For users, SystemBase offers the SB4002A Development Kit to minimize the efforts and costs, and to provide stability while developing a product. SB4002A Development Kit includes H/W schematics, CAD files, S/W device driver and source codes, etc. It will help you to develop a new product easily and quickly.



Products	Description
SB4002A-TQ	32-bit, 33/66MHz PCI Target Interface Controller, 176-pin TQFP Package
SB4002A Development Kit	Evaluation Board, Data Sheet, Development Kit Manual, Development Kit CD - E/B Schematics - E/B Artwork & Gerber - Serial EEPROM Data - Device Driver & Test Program - Source Code