

SB5001

PCI Express to Serial Multiport
Bridge with x1 PHY



» Main Features

- Standard PCI Express Base Specification v1.0a and v1.1 compliant
- Built-In PCI Express x1 PHY
- Built-In Quad-UART with 256-Byte FIFO, SB16C1054
- Auto Toggling pins for RS422 and RS485 network
- Supports various scalability : 4, 8, 16, 24, 32 ports Serial MultiPort
- Supports Power Management and MSI functions
- LQFP176, Supports easy & economy soldering

Features

Integrated PCI Express Interface

- Standard PCI Express Base Specification v1.0a and v1.1 compliant
- Built-In x1 PCI Express PHY
- PCI Express single-lane(x1), Compatible with x4, x8, x16 PCI Express slots
- PCI Express 2.5Gbps per direction
- One Virtual Channel
- Supports Power Management (PCI-PM v1.2 & ASPM LOs) functions
- Supports Message Signaled Interrupt (MSI) & INTx emulation
- Downloads Configuration header data from external serial EEPROM

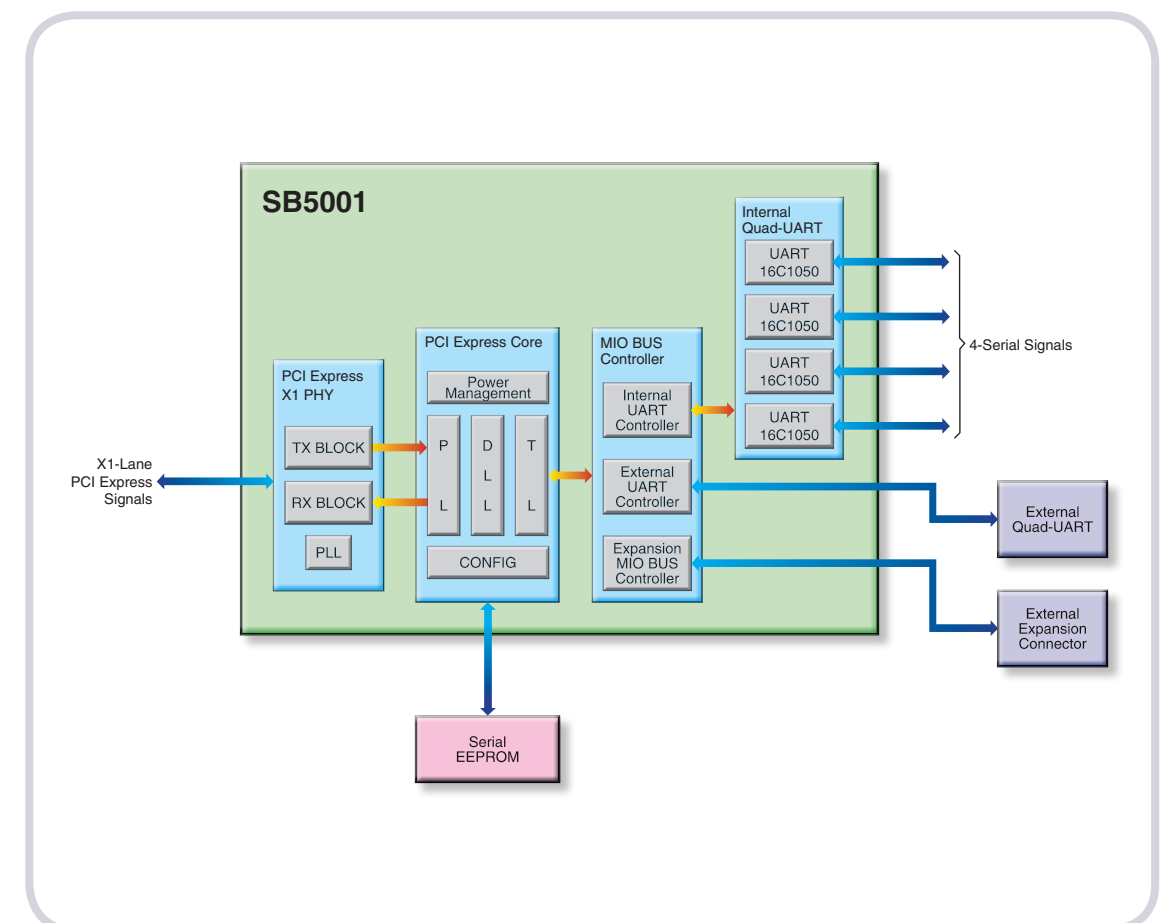
Local I/O Bus Interface

- Supports New MultiPort I/O Bus by SystemBase
8-bit data width & 8-bit address width support for Multiport
Chip Selection & Interrupt Request per Channel
- Built-In Quad UART with 256-byte FIFO, SB16C1054 with Auto Toggling pins
- Scalability up to 32-port Serial MultiPort PCIe Adapter Card
- Capable of controlling UART Read/Write time

Support & Order Information

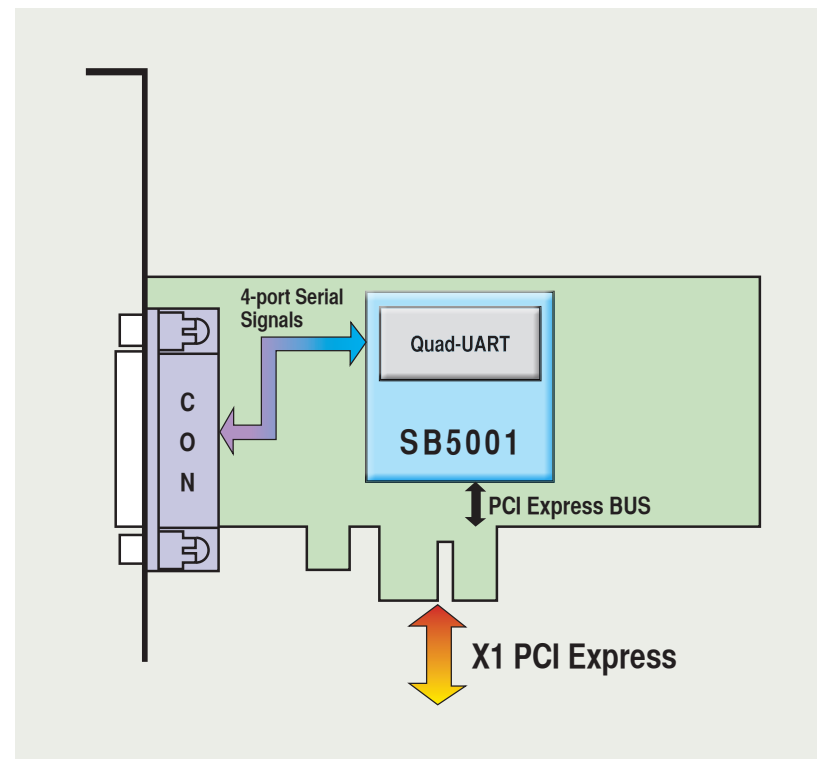
- LQFP176, Supports economy soldering for manufacturing & service

Block Diagram

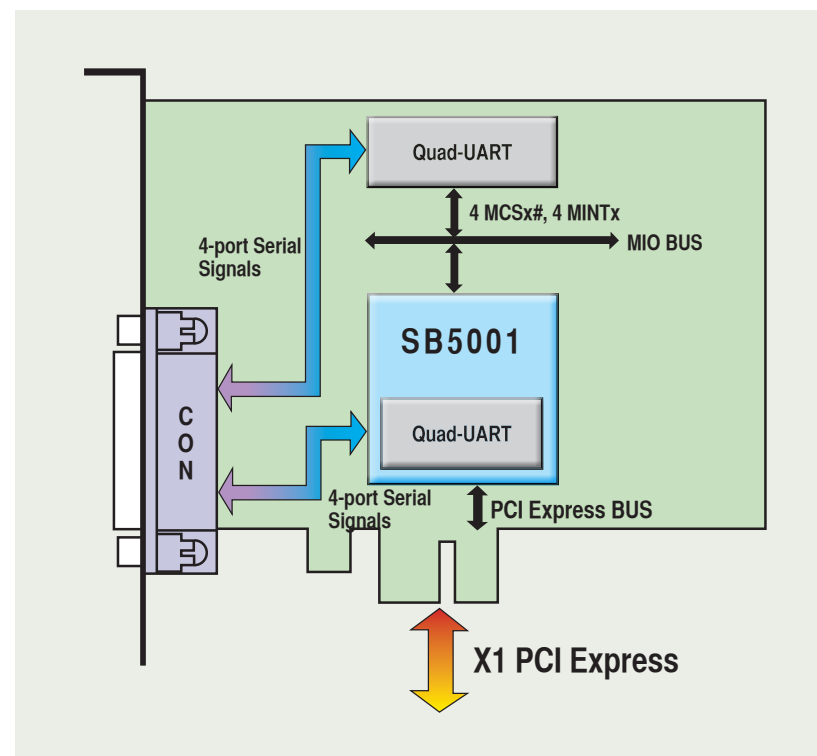


Application

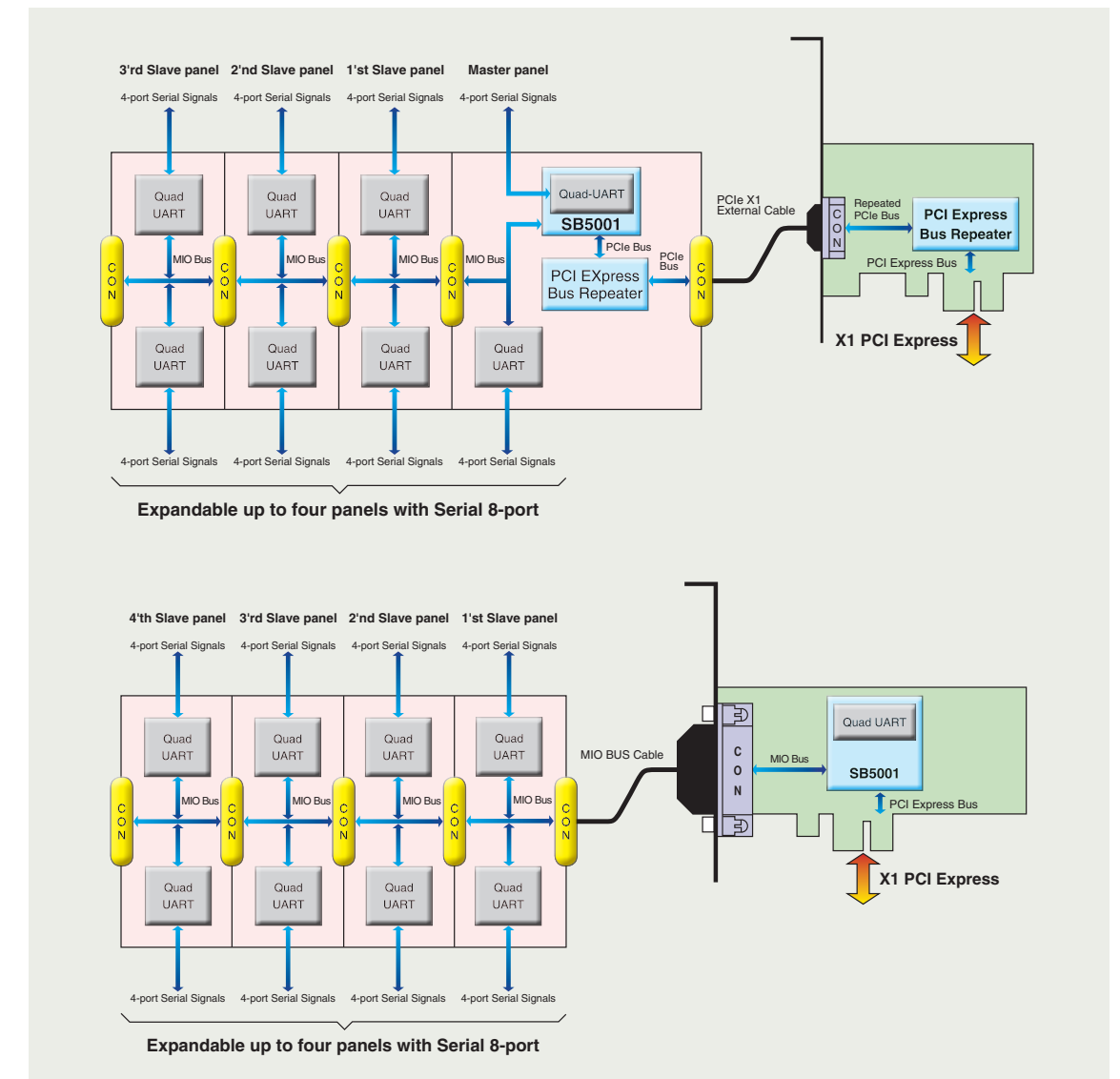
Serial 4-port Card



Serial 8-port Card



Extendable Serial 32-port Card



Ordering Information

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Part Number	SB5001-LQ
Package	176-pin LQFP
Operating Temperature Range	-40°C to +125°C
Device Status	Active