



3.3 V, Four Differential Channel, 2-1 Multiplexer/Demultiplexer Switch for PCI Express Gen3

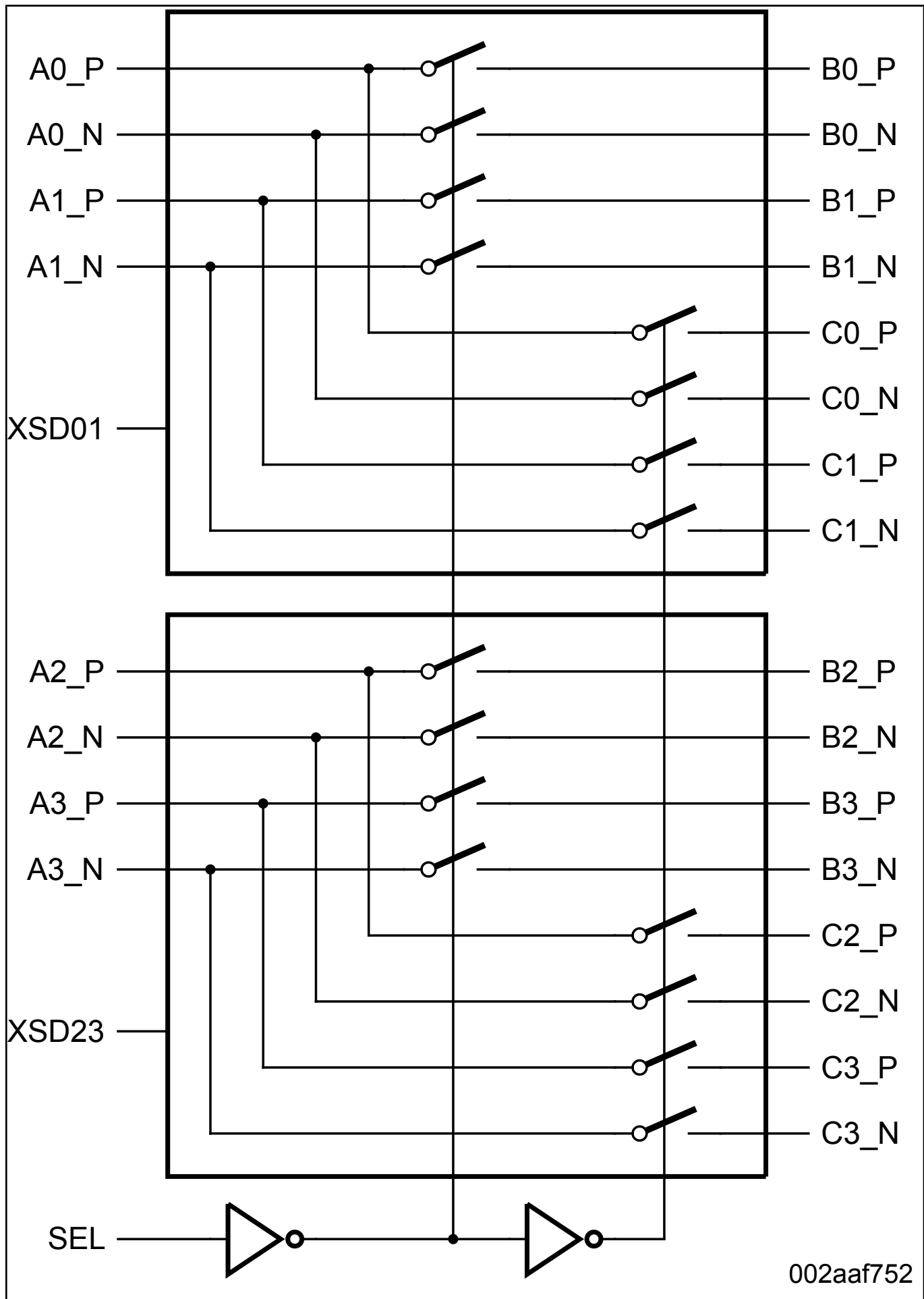
CBTL04083A_CBTL04083B

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CBTL04083A/B is a 4 differential channel, 2-to-1 multiplexer/demultiplexer switch for PCI Express Generation 3 (Gen3) applications. The CBTL04083A/B can switch four differential signals to one of two locations. Using a design technique, NXP has minimized the impedance of the switch such that the attenuation observed through the switch is negligible, and also minimized the channel-to-channel skew as well as channel-to-channel crosstalk, as required by the high-speed serial interface. CBTL04083A/B allows expansion of existing high speed ports for extremely low power.

The device's pin out are optimized to match different application layouts. CBTL04083A has input and output pins on the opposite of the package, and is suitable for edge connector(s) with different signal sources on the motherboard. CBTL04083B has outputs on both sides of the package, and the device can be placed between two connectors to multiplex differential signals from a controller.

CBTL04083A, CBTL04083B Block Diagram



View additional information for [3.3 V, Four Differential Channel, 2-1 Multiplexer/Demultiplexer Switch for PCI Express Gen3](#).

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