High-Speed Differential 1-to-2 Switch Chip

CBTU02043HE

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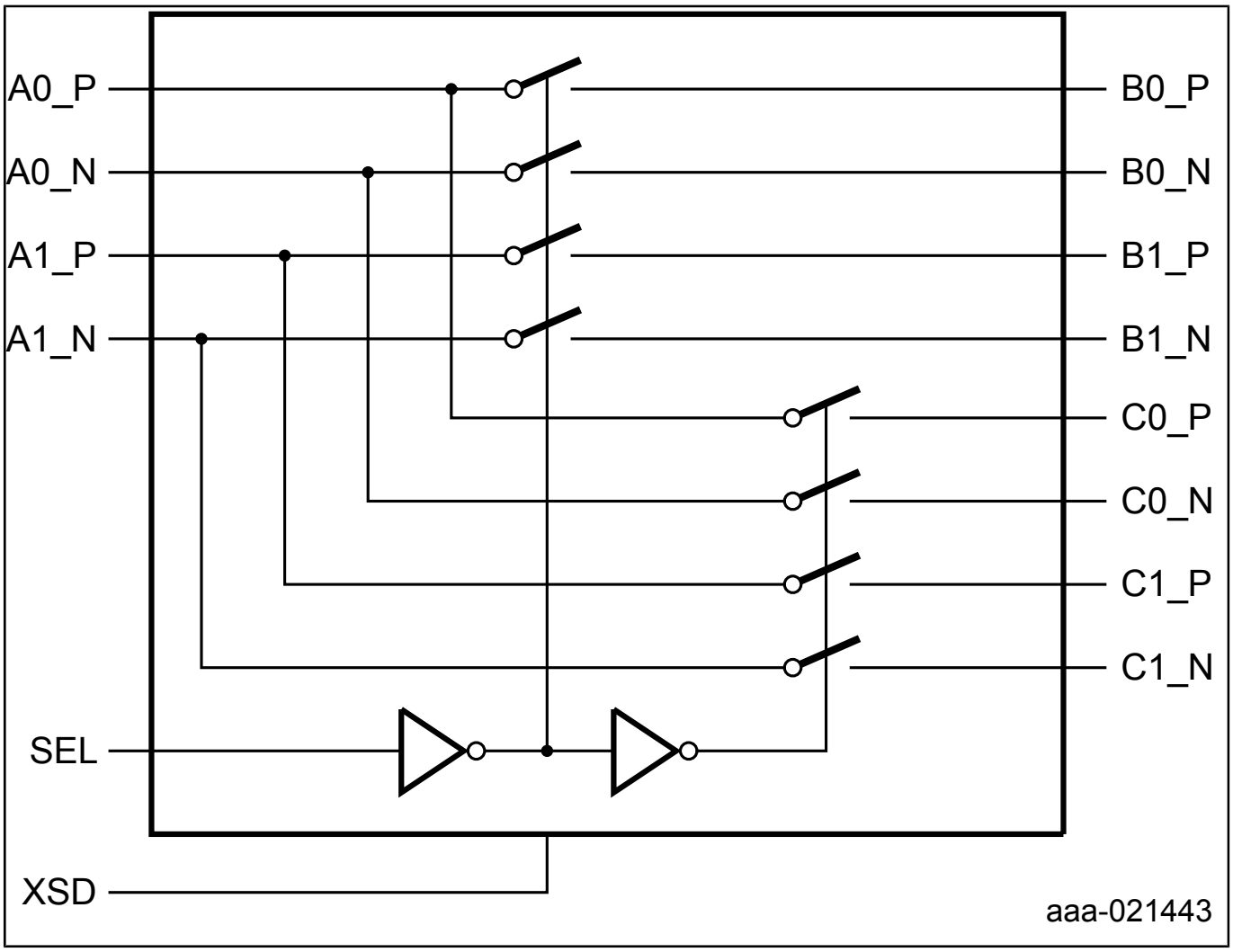
The CBTU02043 is a high-speed differential 1-to-2 switch chip optimized to interface with type C connector for mobile and PC applications. This high performance switch chip can be used for 1 port USB3.1, PCIe-Gen3 high speed serial interface applications. It can also support DP1.3 or 4 single-ended DDR channels. The CBTU02043 chip can also provide 2-to-1 MUX function by selecting 1 (Port A) out of two differential ports (Port B or C) for other applications.

The device's pinouts are optimized for USB3.1 type C DeMUX application and achieve very low crosstalk to meet the stringent type C crosstalk spec. The small package and pinning is ideal for smartphone type C application.

CBTU02043 is available in 1.6 mm x 2.4 mm x 0.5 mm HUQFN16 package with 0.4 mm pitch.

CBTU02043 Block Diagram



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