



Multiplexer / Demultiplexer Switch for Thunderbolt Applications

CBTL05023BS

Archived

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The CBTL05023 is a multiplexer/demultiplexer switch chip for DisplayPort v1.2 signals and the control signals of a 10 Gbit/s channel. The 10 Gbit/s channel does not pass through this switch. This chip provides BIASOUT output control signal, and the DC-biasing pull-down resistors to facilitate an external 10 Gbit/s channel.

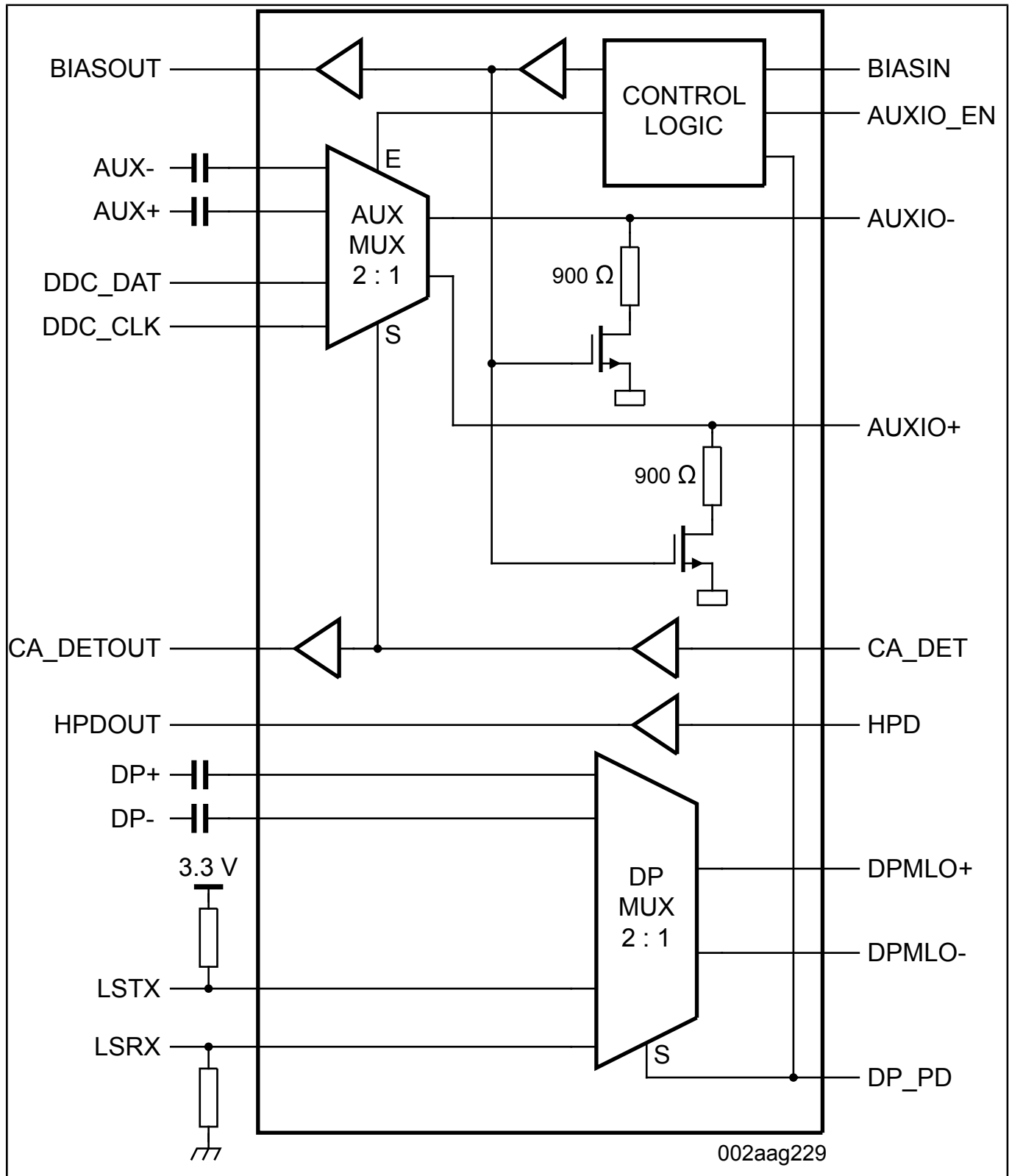
The AUX MUX is a 2 : 1 switch with CA_DETect pin selecting between AUX and DDC (Direct Display Control) signals.

The DP MUX is a 2 : 1 switch that selects between DPML (DisplayPort Main Link) and LSTX/LSRX signals.

This chip also includes three control signal buffers: HPDOUT, CA_DETOUT and BIASOUT.

CBTL05023 is powered by a 3.3 V supply and it is available in 3 mm x 3 mm HVQFN24 package with 0.4 mm pitch.

CBTL05023 Block Diagram Block Diagram



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