



Low Power DisplayPort to VGA Adapter with Integrated 1-2 VGA Switch

PTN3355BS

Archived

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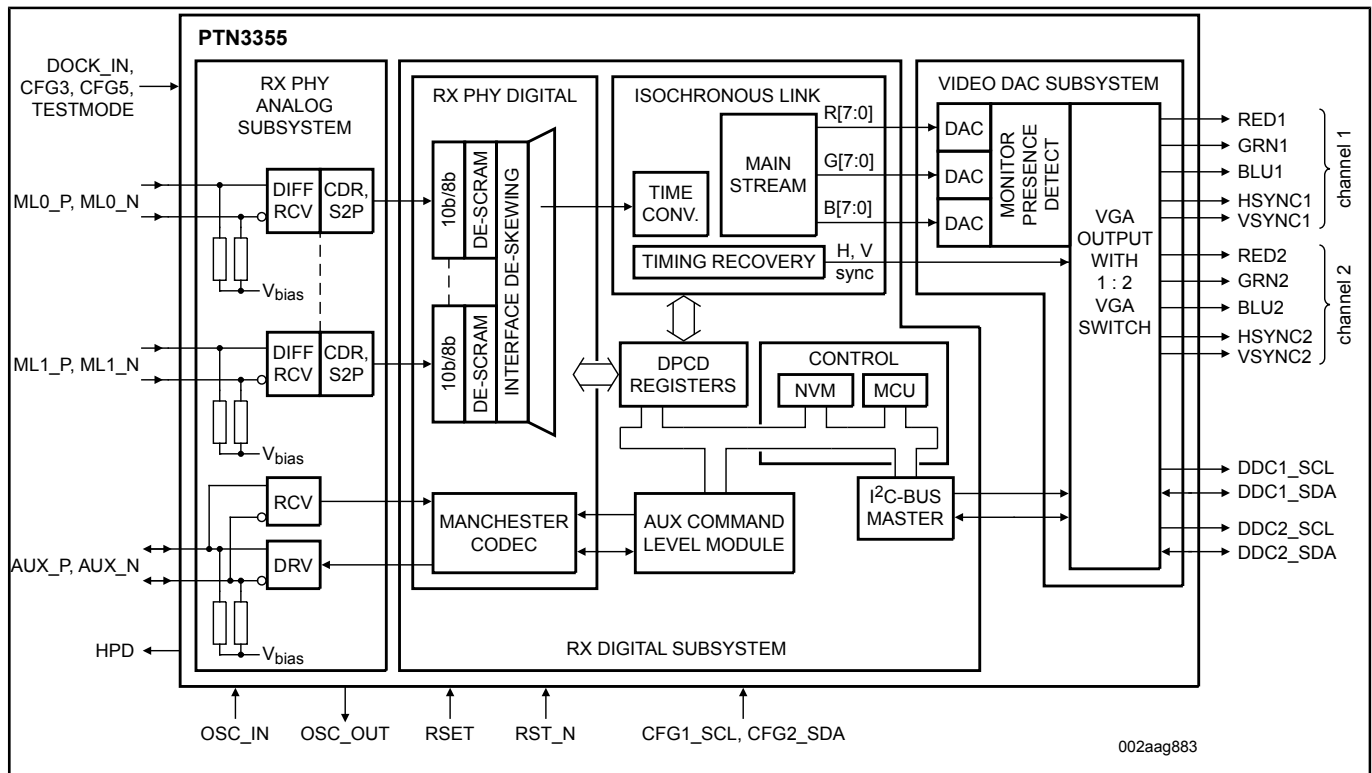
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PTN3355 is a DisplayPort to VGA adapter with an integrated 1 : 2 VGA switch optimized primarily for motherboard applications, to convert a DisplayPort signal from the chip set to an analog video signal that directly connects to the VGA connector. PTN3355 integrates a DisplayPort receiver, a high-speed triple video digital-to-analog converter and 1 : 2 VGA switch that supports a wide range of display resolutions, for example, VGA to WUXGA. PTN3355 supports either one or two DisplayPort lanes operating at either 2.7 Gbit/s or 1.62 Gbit/s per lane.

PTN3355 supports I²C-bus over AUX per DisplayPort standard, and bridges the VESA DDC channel to the DisplayPort Interface.

PTN3355 is powered from a 3.3 V power supply and consumes approximately 200 mW of power for video streaming in WUXGA resolution and 410 μ W of power in Low-power mode. The VGA output is powered down when there is no valid DisplayPort source data being transmitted. PTN3355 also aids in monitor detection by performing load sensing on RGB lines and reporting sink connection status to the source.

PTN3355 Block Diagram



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