

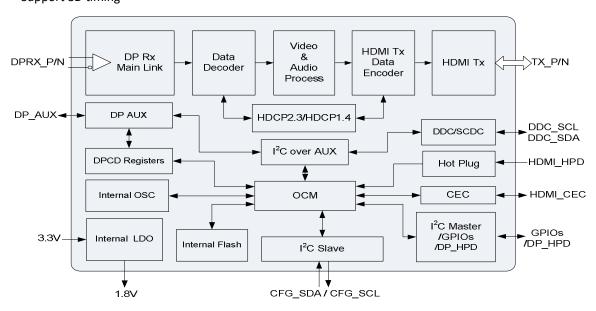
## DisplayPort 1.4 to HDMI2.0b Converter

ANX7510 is a DisplayPort1.4 to HDMI2.0b converter, which includes 3D display delivery capability. It can support up to 4 lanes of 5.4Gbps speed in conjunction with any 4K@60 DP alternate mode USB-C source. ANX7510 transforms the DisplayPort to HDMI or DVI so that the device can connect to any high-definition TV, monitor, or projector.

## **Features**

- VESA DisplayPort<sup>™</sup> (DP) v1.4 compliant receiver
  - 1, 2 and 4 lanes up to HBR3 (8.1Gbps) input
  - 1 MHz AUX Channel
  - Horizontal Blanking Expansion Operation
  - 27dB insertion loss recovery
- HDMI Specification v2.0b compliant transmitter
  - TMDS scrambling up to 600MHz pixel clock rate
  - Support up to 4096x2160@60Hz
  - SCDC (Status and Control Data Channel)
  - CEC2.0
- Support HDCP2.3, HDCP2.2 and HDCP1.4 repeater with HDCP keys inside
- Video stream
  - Support High Dynamic Range (HDR) metadata
  - Support 3D timing

- Audio Stream
  - Max audio sample rate of 192KHz x8 channels
  - 8-ch LPCM, compressed audio (AC-3, DTS)
- Integrated reference clock
- On chip micro-controller (OCM) and integrated memory
- Serial and debug interfaces
  - Support I<sup>2</sup>C Slave and master interface, up to 1MHz
  - Re-purpose GPIOs for UART or I<sup>2</sup>C master interface
- Support 3.3V and 0.9V power supply
- Flexible Firmware update methods
- Package
  - QFN-48, 6mmx6mm, 0.4mm pin-pitch
- Commercial temperature range of OC to 70C
- HBM 4KV



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## **Related Products**

Part Number	Description
ANX7750	DisplayPort Converter (4K@30Hz) with 1-lane DisplayPort1.2a input
ANX9837	DisplayPort Converter (WQXGA, 2560x1080@60Hz) with two-lane high-speed differential input at 5.4Gbps, 2.7Gbps, or 1.62Gbps

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