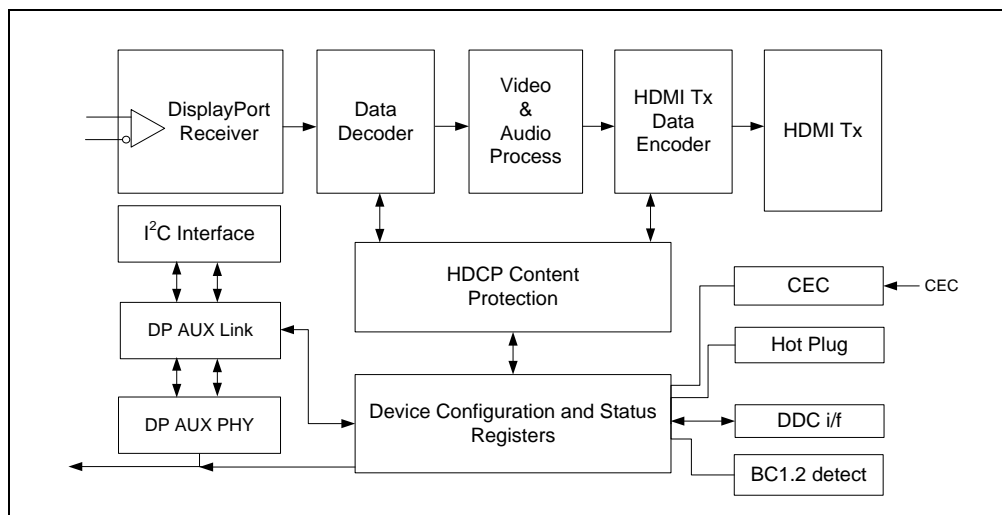


## DisplayPort™ to HDMI® (Ultra-HD, 4K) Converter

The ANX7737 is a DisplayPort (DP) to HDMI (up to Ultra-HD, 4K using HBR2.5) converter, which includes 3D display delivery capability. It is designed to interoperate with any other DisplayPort enabled transmitter, with a maximum resolution of Full-HD including 3D display, in smartphones, tablets, Ultrabooks, sports cameras, camcorders, and set top boxes. ANX7737 can support up to HBR2.5 in conjunction with an Analogix 4K transmitter. ANX7737 transforms the DisplayPort output of a source device to HDMI or DVI output so that the device can connect to any high-definition TV, monitor, or projector.

### Features

- Standard compliance
  - DisplayPort, HDMI, HDCP
- DisplayPort receiver
  - 1-lane DisplayPort1.2 input with link speed of RBR (1.62Gbps), HBR (2.7Gbps), HBR2 (5.4Gbps), and HBR2.5 (6.75Gbps)
  - Advanced WideEye™ SerDes technology capable of receiving data over long and low quality cables
  - Stereo (3D) video support
  - HDCP content protection
- HDMI transmitter
  - Supports all HDMI 1.4b 4K resolutions, in conjunction with an Analogix 4K transmitter, including 3840x2160@30Hz and 4096x2160@24Hz video formats
  - Up to 36bpp color depth support at Full-HD
- 3D video output support for all HDMI 1.4b 3D modes
- Remote control support through Consumer Electronics Control (CEC)
- HDCP version 1.4 and 2.2 pass-through content protection
- System operation
  - On-chip Microcontroller (OCM)
  - Slave I<sup>2</sup>C device control interface
  - Master I<sup>2</sup>C device control interface available on DisplayPort CONFIG signals
  - Built-in video test pattern generator
- Power requirements
  - 1.0V and 1.8V power supplies
- Package offered: 64-pin QFN, 8mm x 8mm, 0.4mm pin-pitch
- RoHS compliant and Halogen free package



## 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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3211 Scott Blvd., Suite 103  
Santa Clara, CA 95054, USA  
+1 (408) 988-8848

<http://www.analogix.com/>

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