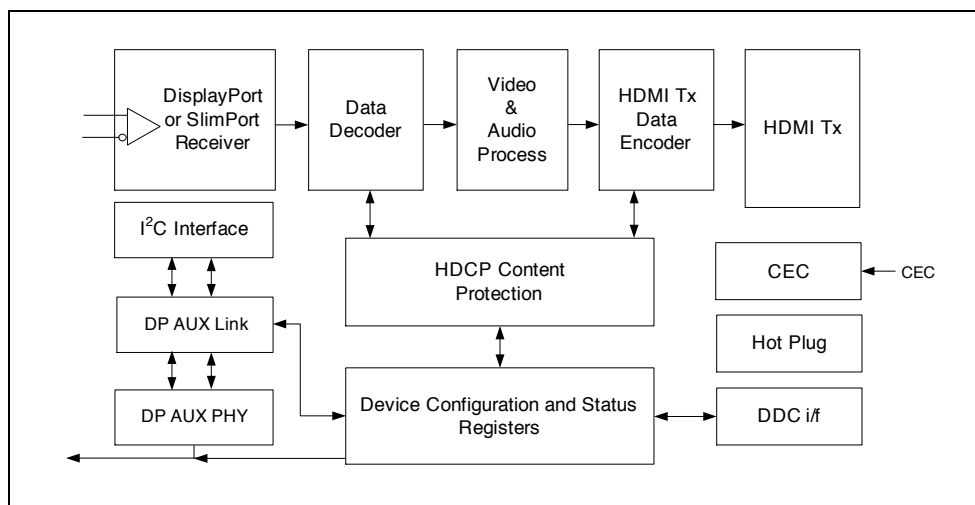


SlimPort® to HDMI® (Ultra-HD, 4K) Converter

The ANX7738 is a SlimPort to HDMI (up to Ultra-HD, 4K in Turbo mode) converter, which includes 3D display delivery capability. Also, it is designed to interoperate with any other MyDP or DisplayPort™ enabled transmitter, with a maximum resolution of Full-HD including 3D display, in smartphones, tablets, Ultrabooks, sports cameras, camcorders, and set top boxes. ANX7738 works in conjunction with MyDP/DisplayPort transmitters, such as the ANX7812, ANX7814, ANX7816, and more. ANX7738 transforms the MyDP/DisplayPort or SlimPort (Turbo mode) 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, MyDP, HDMI, HDCP
- HDMI transmitter
 - Connects to any HDMI receiver
 - Max TMDS link rate up to **300Mpixels/sec**
 - Up to **36bpp** color depth support at Full-HD
 - **3D video** output support
 - Remote control support through Consumer Electronics Control (CEC)
 - HDCP content protection
- SlimPort/MyDP/DisplayPort receiver
 - SlimPort (Turbo mode) DisplayPort or MyDP input
 - Configurable 1-lane input supports: Turbo mode, HBR2, HBR, and RBR data rates
 - Advanced WideEye™ SerDes technology capable of receiving data over long and low quality cables
 - Spread Spectrum Clocking (SSC) support
- Stereo (3D) video input support
- Single wire AUXP (C-WIRE) sideband communication
- Integrated remote control support
- HDCP content protection
- System operation
 - **Integrated On-chip Microcontroller (OCM)** for software free operation
 - Slave I²C device control interface
 - Built-in video test pattern generator
- Power requirements
 - 1.0V and 1.8V
 - 3.3V input requirement eliminated by an integrated boost regulator
 - Standby power: <20mW, while monitoring cable detection
- Package offered: 64-pin QFN, 8mm x 8mm, 0.4mm pin-pitch
- RoHS compliant and Halogen free package





Related Products

Part Number	Description
ANX7802	SlimPort Transmitter (HD, 1080p30) with HDMI input
ANX7805	SlimPort Transmitter (Full-HD, 1080p60) with RGB-24, MIPI-DSI, SPDIF, I ² S and SLIMbus inputs
ANX7812	SlimPort Transmitter (Full-HD, 1080p60) with HDMI input
ANX7814	SlimPort Transmitter (Full-HD, 1080p60) with HDMI input
ANX7816	SlimPort Transmitter (Ultra-HD, 4Kp60) with HDMI input
ANX7730	SlimPort to HDMI (Full-HD, 1080p60 and 3D) converter
ANX7732	SlimPort to VGA (WUXGA, 1920x1080p60) converter
ANX7748	SlimPort to DisplayPort (WUXGA, 1920x1080p60) active lane converter

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