

## DisplayPort™ to HDMI™ or DVI Converter with HDCP Protection

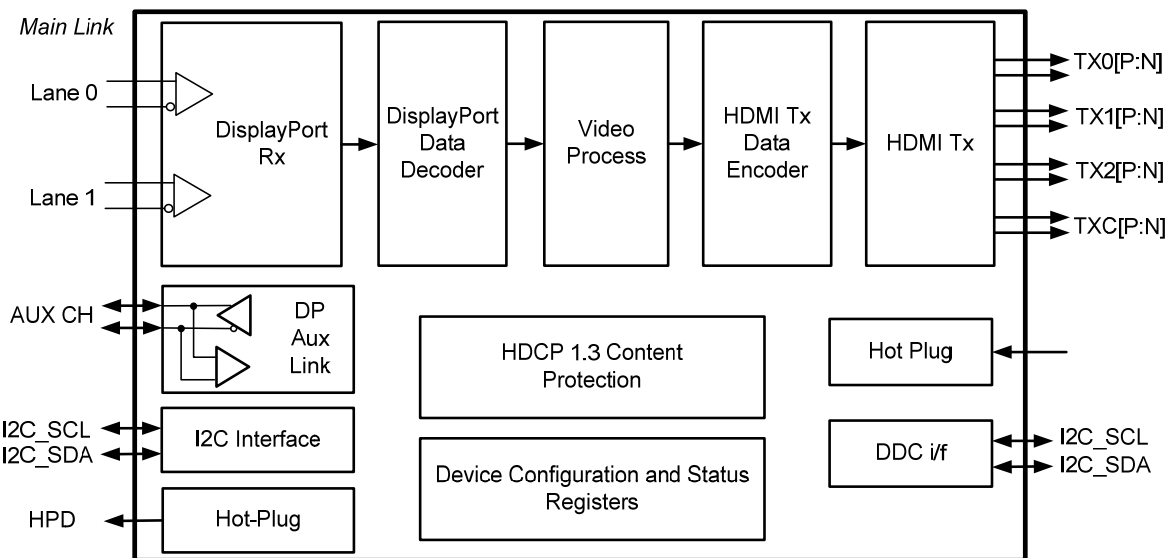
### Features

- Product Compliance
  - DisplayPort 1.1a with HDCP 1.3
  - HDMI 1.3a with HDCP 1.3
  - HDMI 1.2 and DVI 1.0 backward compatible
- Output Interface:
  - HDMI 1.3a Transmitter
  - Supports up to 1080p and 1920x1200 @60Hz
  - 6-bit, 8-bit, 10-bit per color RGB color format support
  - 8-bit, 10-bit YCrCb 4:4:4 and YCrCb 4:2:2 color format support
- Input Interface:
  - DisplayPort 1.1a Receiver
  - Configurable 1 or 2 lanes and 1.62/2.7 Gbps data rate
  - Down Spread Spectrum (SSC) support
  - Advanced WideEye™ SerDes Technology capable of receiving data over long and/or low quality cables
  - All DisplayPort Receiver side registers accessible by the AUX channel and I2C Slave Interface
- Other Key Features
  - Fully integrated HDCP 1.3 encryption for DisplayPort™ and HDMI™
  - Read EDID from a sink device via HDMI DDC and DisplayPort AUX Channel
- Power Supplies: 1.2V and 2.5V
- 8KV ESD performance
- Packages offered: 48-pin QFN
- Application
  - TV and Monitors
  - Set-Top Box
  - PC/Handheld Device Docking Station

The ANX9830 is a low power DisplayPort to HDMI or DVI format converter designed for Flat-TV, Monitors, Set-top boxes, PC/Handheld device docking stations. Using proprietary circuit techniques, ANX9830 consumes very low power.

The ANX9830 provides a cost-effective method of sending Audio-Video contents from DisplayPort sources to HDMI Receivers with HDCP content protection. The device architecture incorporates up to 10-bit per color for 1080p Full-HD or WUXGA resolutions across DisplayPort and HDMI or DVI interfaces to a variety of Display devices.

For more information, please refer to the Analogix related products.



**Figure 1: ANX9830 Block Diagram**

## Parts Ordering Information

Part No.	Description	Availability
ANX9830	DisplayPort™ to HDMI™/DVI Converter 48 pin, 7 x 7 mm, QFN package	Now
ANX9830_EV	DisplayPort™ to HDMI™/DVI Converter Evaluation Kit	Now

## Related Products

Part No.	Description	Availability
ANX9804	DVO/LVTTL(24-bit input) to DisplayPort™ 1.1a / HDMI™ 1.3 Transmitter with HDCP 1.3 content protection	Now
ANX9805	DVO/LVTTL(18-bit input) to DisplayPort™ 1.1a / HDMI™ 1.3 Transmitter with HDCP 1.3 content protection	Now
ANX9832	DisplayPort™ to VGA Converter	Now

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