

48 Gbps HDMI 1:1 Transceiver

FEATURES

- ▶ 1-input, 1-output HDMI transceiver, uncompressed video support up to
 - ▶ 8k60 YCbCr 4:2:0, 12-bit
 - ▶ 8k30 RGB/YCbCr 4:4:4/4:2:2, 12-bit
 - ▶ 4k120 RGB 4:4:4, 12-bit
 - ▶ 4k240, YCbCr 4:2:0, 12-bit
- ▶ HDMI receiver
 - ▶ Up to 48 Gbps FRL support
 - ▶ Up to 18 Gbps TMDS video support
 - ▶ eARC transmitter
 - ▶ On-chip, 4-block EDID SRAM managed by external MCU host processor through API
- ▶ HDMI transmitter
 - ▶ Up to 48 Gbps FRL support
 - ▶ Up to 18 Gbps TMDS video support
 - ▶ eARC receiver
- ▶ HDCP
 - ▶ HDCP 1.4 and HDCP 2.3 support
 - ▶ Independent HDCP support on transmitter and receiver ports
 - ▶ Fully integrated HDCP 1.4 and HDCP 2.3 repeater modes
 - ▶ On-chip key storage in OTP memory
- ▶ Audio
 - ▶ Audio extraction and insertion ports
 - ▶ 6-channel, 1-bit audio support
 - ▶ 8-channel, 192 kHz, 24-bit LPCM audio support
 - ▶ 24.576 Mbps IEC 61937 compressed audio support
- ▶ Video
 - ▶ FRL to TMDS and TMDS to FRL mode conversion
 - ▶ VRR, QFT, QMS, and ALLM passthrough support
 - ▶ Dynamic HDR passthrough support including HDMI dynamic HDR metadata, HDR10+, and Dolby Vision
 - ▶ DSC 1.2a compressed video passthrough support
- ▶ Character and icon-based OSD capable of overlaying text and icons on 2D and 3D video formats
- ▶ CEC 1.4 and 2.0
- ▶ HDMI 1.4a, HDMI 1.4b, HDMI 2.0, and HDMI 2.1 compliant, and DVI-compatible transceiver

APPLICATIONS

- ▶ Audio video receivers
- ▶ Soundbars

For more information about the ADV7671A, contact your local Analog Devices, Inc., sales office at www.analog.com/sales.

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TECHNICAL SUPPORT

NOTES