

48 Gbps HDMI 1:1 Transceiver

FEATURES

- ▶ 1-input, 1-output HDMI transceiver, uncompressed video
 - ▶ Up to 8k60 YCbCr 4:2:0 12-bit video support
 - ▶ Up to 8k30 RGB/YCbCr 4:4:4/4:2:2 12-bit video support
 - ▶ Up to 4k120 4:4:4 12-bit high frame rate video support
- ▶ 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, FVA, and ALLM passthrough support
 - ▶ Dynamic HDR passthrough support including HDMI dynamic HDR metadata, HDR10+, and Dolby Vision
 - ▶ DSC 1.2a passthrough support
- ▶ HDMI 1.4a, HDMI 1.4b, HDMI 2.0, and HDMI 2.1 compliant and DVI-compatible transceiver

APPLICATIONS

- ▶ TVs, home theaters, and soundbars

Analog Devices is in the process of updating documentation to provide terminology and language that is culturally appropriate. This is a process with a wide scope and will be phased in as quickly as possible. Thank you for your patience.

For more information about the ADV7671, contact your local Analog Devices, Inc., sales office at www.analog.com/sales.

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DOCUMENT FEEDBACK

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TECHNICAL SUPPORT

NOTES