

LT8511EX --- Product Brief

HDMI /DP to VGA/PbPr Converter

Features

On-chip HDMI and dual-mode DP receiver with Equalizer, supports 4Kx2K, 1920x1200 and 1080p 8/10/12bit deep color, up to 3.4GHz data ratio.

On chip receiver core which is compliant with HDMI1.4 specification.

On chip HDCP engine which is compliant with HDCP1.4 spec.

HDCP key stored in MCU for BOM cost reduction.

Supports analog video output (VGA or YPbPr) up to 4Kx2K, 1920x1200, and 1080p with three on chip DAC.

On-chip audio decoder which supports 2-channel IIS and SPDIF audio outputs.

Support audio soft mute.

On chip YCC422 to YCC444 conversion.

On chip YCC to RGB and RGB to YCC conversion in ITU-R BT.601 and 709 color space.

Support separate sync output and SOG/SOY.

Flexible interrupt registers with interrupt pin.

Link on and Valid DE detection.

Offered in 64-pin QFN package, and operates over -40°C to +85°C temperature range.

Description

LT8511EX is a low cost high performance single port HDMI and dual-mode Displayport receiver which is compliant with HDMI 1.4. The RX can receive 4Kx2K(1080p 8/10/12bit deep color, up to 3.4GHz data ratio) input. Besides it supports analog video-output(VGA or YPbPr) up to 4Kx2K, 1920x1200, and 1080p with three high resolution DACs. The chip integrates dual-mode receiver front end with equalizer, HDMI core and HDCP engine in a single chip.

Lontium Co

Lontium Confidentialia