

LT8511A --- Product Brief

HDMI to VGA Converter

Features

- On-chip HDMI receiver with Equalizer, supports 8/10/12bit deep color, up to 2.25GHz data ratio.
- On chip receiver core which is compliant with HDMI1.3 specification.
- On chip HDCP engine which supports repeater and is compliant with HDCP1.3 spec.
- Supports pixel clock rate up to 165MHz.
- Supports analogue video output up to UXGA and 1080p with three on chip DAC.
- On-chip audio decoder which support 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.
- The LT8511A is offered in 64-pin QFN package, and operates over -40°C to +85°C temperature range

Description

LT8511A is a low cost high performance single port HDMI receiver which is compliant with HDMI 1.3. The RX can receive 1080p (8/10/12bit deep color, up to 2.25GHz data ratio) input. Besides it supports Analogue Video-output up to UXGA and 1080p with three high resolution DACs. The chip integrates Equalizer, HDMI core and HDCP engine in a single chip.

Applications

- Mobile Phone
- Tablet/Pad
- Ultra book
- Home Game Console
- PC/Graphic Card

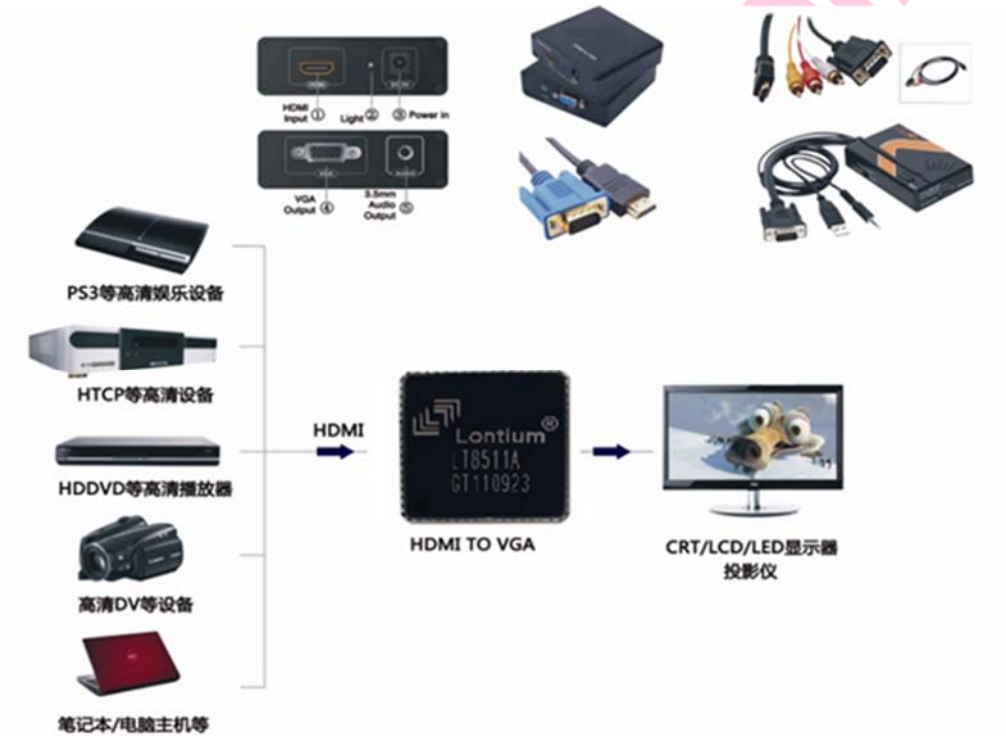
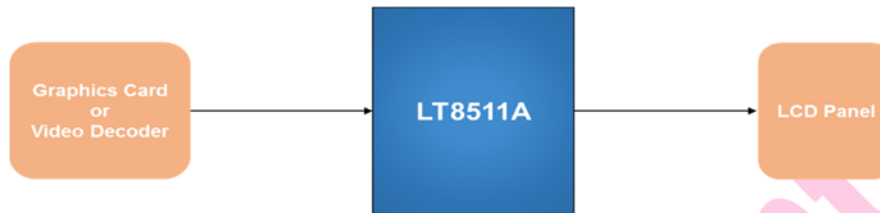


Figure 1. Application Diagram

Ordering Information

| Part Number | Operating Temperature Range | Package | Packing Method |
|-------------|-----------------------------|--------------|----------------|
| LT8511A | -40° C to +85° C | QFN64L (9*9) | Tape and Reel |

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