

LT8511A --- Product Brief

HD-DVI to VGA Converter

1. Features

- On-chip HD-DVI receiver with Equalizer, supports 8/10/12bit deep color, up to 2.25GHz data ratio.
- On chip receiver core which is compliant with HD-DVI1.3 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

2. General Description

LT8511A is a low cost high performance single port HD-DVI receiver which is compliant with HD-DVI 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, HD-DVI core and HDCP engine in a single chip.

3. Applications

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

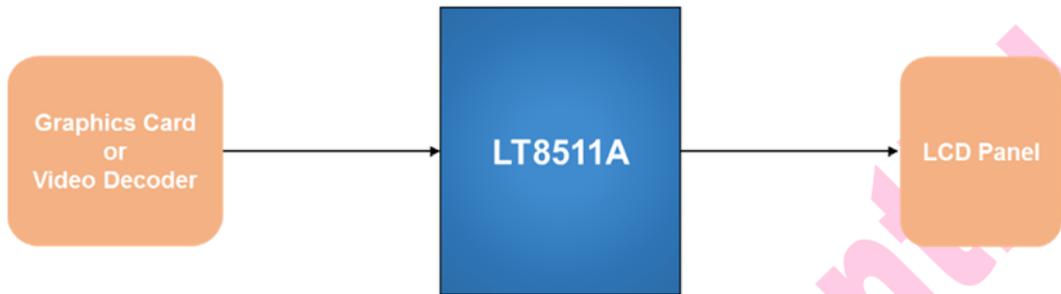


Figure 3.1 Application Diagram

4. Ordering Information

Table 4.1 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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