

LT6211C --- Product Brief

HDMI1.4 to Dual-port LVDS with Audio

Features

● HDMI1.4 Receiver

- Compliant with the HDMI 1.4 specification with TMDS data rates up to 3.4Gbps per channel
- Support HDCP 1.4
- Adaptive receiver Equalization for PCB, cable and connector losses

● Single/Dual-Port LVDS Transmitter

- Compatible with VESA and JEIDA standard
- 1/2 Configurable Port
- 1 clock lane and 4 configurable data lanes per port
- Data Lane and Polarity Swapping
- Support Maximum Data Rate 1.2Gb/s/lane
- Output Color Depth supports 6-bit and 8-bit
- Video stream copy mode for each dual-port
- Side-by-side 3D support

● Miscellaneous

- 3.3V/1.2V Supply Power
- Internal CSC support conversions between YCbCr 4:4:4 and RGB, and between YCbCr 4:2:2 and YCbCr 4:4:4

- Support SPDIF and 8-channel IIS audio output
- Support 100KHz and 400KHz I2C slave
- Power from phone or adapter mode selection
- Integrated Microprocessor
- Embedded EDID shadow.
- Temperature Range: -40°C ~ +85°C
- ESD 4kV HBM

Description

The LT6211C is a high performance HDMI1.4 to LVDS chip for VR/Display application.

For LVDS output, LT6211C can be configured as single-port or dual-port. For 2D video stream, the same video stream can be mapped to two separated panel, for 3D video format, left side data can be sent to one panel, and right side data can be sent to another panel.

Applications

- Docking Station
- Display
- VR

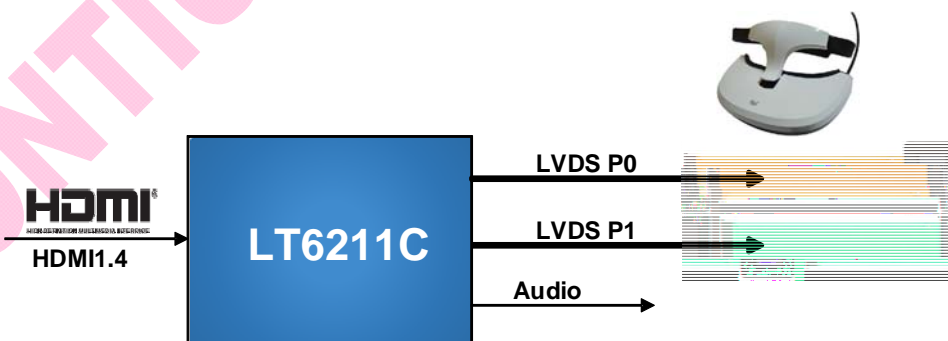


Figure 1. Application Diagram

Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
LT6211C	-40 to+85	QFN64 (7.5*7.5)	Tray

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